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Our 20th year of Examining!

"Immersed" VR Show

by Gord Harris

Professionals working in virtual reality and augmented reality (VR/AR) converged at the **Ontario Science Centre** in Toronto, Oct. 19–21, for the annual conference of the **Immersive Technologies Alliance (ITA3D)**, organized by executive director **Neil Schneider**. This was a small business-to-business conference primarily for VR/AR practitioners to exchange tips and show off their latest immersive 3D creations and hardware. I attended on behalf of *LF Examiner* to see what's new and exciting in VR/AR.

The VR displays were open to the public on Saturday, Oct. 21. Many parents brought young children for a spin on high-end head-mounted display (HMD) systems like HTC Vive. Most seemed delighted.

For me, one of the highlights of the show was a new Kickstarter project called **Pimax 8K VR** from Shanghai. Their system provides 3840x2160 images to each

(see *VR SHOW* on page 2)

GSCA Conference in Chicago, Sept. 25–29

In September, more than 300 people attended the **Giant Screen Cinema Association's** annual fall conference and trade show in Chicago. The conference featured screenings of 17 new films (including several rough or fine cuts), presentations on 24 films in production and 14 in development, two technical sessions, several professional development sessions, and an awards presentation. The meeting concluded with a one-day marketing symposium.

Most screenings were held at the **Navy Pier IMAX at AMC**, which had been recently upgraded with the IMAX laser projection system, and is a few minutes' walk from the conference hotel. Dome screenings were held at Chicago's **Museum of Science and Industry**, in the Giant Dome Theater which was also recently upgraded to laser projection (from 15/70 film) with the **D3D/Christie** laser dome system (see *The Biz, Summer 2017*).

Giant Screen 101

The conference started, as it has for more than ten years, with a session intended to welcome and orient newcomers to the GS world. It was moderated by **Diane Carlson** (now a consultant after many years managing the IMAX theaters at the **Pacific Science Center** in Seattle, WA) and **Paul Wild** of **IMAX Victoria in the Royal BC Museum**.

Consultant **Paul Fraser** of **Blaze Cineworks** started out with a summary of the economic model of a typical giant-screen film. GS films can have production budgets between \$2.5 million and \$10 million, and be booked into as many as 200 theaters over several years. What strategies can producers and distributors use to maximize their returns? Using detailed spread-

sheets, Fraser outlined five possible scenarios with varying numbers of bookings, average license fees, and other variables, and showed the resulting net profits and internal rates of return the producer of each would achieve. He then showed the results of one of those scenarios from the perspectives of the distributor and the theater. He concluded by warning producers that it is hard to make money on GS films, advising distributors that handling multiple titles is the most efficient way to proceed, and telling theaters to find "cost-efficient ways to build revenues."

Mark Katz has worked in GS distribution for nearly 30 years, with **Imax Corporation**, **Sony Pictures Classics**, **nWave Pictures**, **National Geographic**, and currently with **Giant Screen Films**. He estimates that in that time he has negotiated over 5,000 film deals, adding that "while there is often good, occasionally some bad, there is rarely ugly" in the relationships between GS distributors and theaters. Using a series of amusing video clips, he illustrated the importance of open communications in building productive relations. He recalled testing **Stephen Low's** 80-minute film *Titanica* (1992) and after tough critiques from a number of theaters, he worked with Carlson at the Pacific Science Center to structure a deal that reduced the theater's risk. The plan worked, and the film was a hit, spurring other theaters to book it. "The point of the story, and one that demonstrated what a good exhibitor/distributor relationship can be, is Diane's professionalism, hon-

(see *GSCA* on page 6)

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Premiering this Month

Thor: Ragnarok

Justice League

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Founded 1997 as MaxImage!

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Toronto's Cinesphere Reopens

by Powys Dewhurst

Cinesphere, the world's first permanent IMAX theater, reopened in Toronto on Nov. 2 after having been closed since 2012. On Nov. 2, a VIP event to relaunch the theater featured **Christopher Nolan's** *Dunkirk* presented on 15/70 film, and **Graeme Ferguson's** *North of Superior* (1971), shown on the IMAX laser system.

"I'm still shaking, and I've seen the film before," said IMAX co-inventor Ferguson after the *Dunkirk* screening. "If I'm a little incoherent we'll blame it on the wonderful filming and editing."

Ontario Place, the theme park in which the Cinesphere is a featured attraction, is in the process of being revitalized after having closed in 2011.

In addition to Ferguson, speakers at the event included **David Keighley**, Chief Quality Officer and executive vice president of **Imax Corporation**; **Eleanor McMahon**, Ontario's Minister for Tourism, Culture, and Sport; and Ontario Place board member **Linda Franklin**.

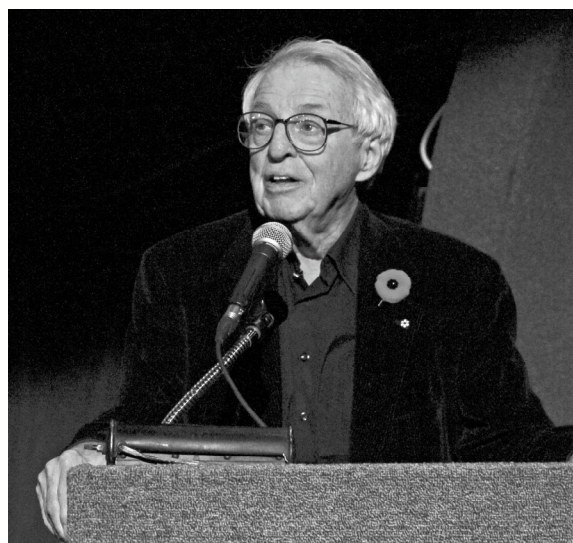
When *North of Superior* opened in 1971 to rapturous audiences at the Cinesphere, it was the only IMAX cinema in the world. While Hollywood filmmakers were eager to experiment with the IMAX format, the studios remained skeptical, since at the time there was no way to release IMAX films globally.

Ferguson told the invited audience, "When we decided to invent IMAX, everybody of course said, 'Well, what are you going to do with it?' So we waved our arms and spoke about all the wonderful

things that would come. *Dunkirk* fulfills our dreams. This is exactly why we invented IMAX. To give filmmakers like Chris Nolan a tool to go out and push forward and make even better films. So I'm very, very pleased you've chosen *Dunkirk* for the opening."

The Cinesphere is now open to the public and running IMAX films on weekends. The 15/70 run of *Dunkirk* ended on Nov. 12.

Powys Dewhurst is a Toronto-based filmmaker who is working on a documentary about Graeme Ferguson. He can be reached at powdew@yahoo.com.



Graeme Ferguson

Photo by Powys Dewhurst

(from *VR SHOW* on page 1)

eye at up to 180 fps. (In VR marketing-speak, two eyes at 4K each is "8K.") Nevertheless, that is the same 4K resolution most GS theaters show today with digital 3D projectors, and the more common 75-90 Hz per eye refresh rate Pixmax uses makes 24 fps film look very stuttery.

"Latency" is the delay between a head movement and the system's adjusting the display to create the illusion that the objects depicted have remained fixed in space. Long latency times destroy the illusion of reality and can lead to disorientation or even motion sickness. The Pimax's latency of less than 15 ms made for an impressive demo, about the clearest HMD I have ever seen. The 200-degree binocular field of view (FOV) was impressive: more like OMNIMAX than IMAX.

The headset was comfortable but the wireless

controller had been dropped and broken by a previous user — certainly a costly concern in a public environment.

Pimax's creators were seeking \$200,000 when they started their Kickstarter campaign on Sept. 19. When it closed on Nov. 3, they had received pledges of over \$4.2 million!

Augmented reality

Compared to VR, AR reduces the feeling of claustrophobia and isolation that VR HMDs can create, and may ultimately be more successful for group attractions, I think.

AR heavyweight **John Baker** of **Chosen Realities** demonstrated an impressive achievement: he used multiple depth sensing cameras to cover moving people in a large space with proper occlusion. This is new for AR systems such as **Microsoft's** HoloLens,

which superimposes virtual CGI objects over the real world with excellent registration, but without occlusion and a poor FOV.

Production tech

Stereographer **Nick Brown** gave a presentation called “Blade Runner 3D: More Native Than Native.” His 2D-to-3D conversion was so good it fooled me into thinking it was actually shot in stereo, although it wasn’t. He pointed out many cons of shooting in stereo. His key advance was the use of 3D head scans to create super accurate depth maps for all the close-up shots, rather than rotoscoping by hand. While conservative, his 3D was extremely comfortable. 2D to 3D conversion has fully come of age — a boon for future filmmakers.

An impressive achievement was the **Shadow** wireless motion capture (MOCAP) system by **Erik** and **Lisa Bakke** from Seattle. This is a hybrid MOCAP system that combines internal sensors in the performer’s suit that track the relative angles between 17 body segments with an external tracker to provide an absolute drift-free reference. Sensors update 1,000 times a second, and the system live-streams its data at high frame rates of 100–400 fps. Target markets are VR/AR content creators and the simulator and training market that is predicted to reach \$6 billion in 2021. The Shadow’s cost is a fraction of optical systems that use external cameras to track reflective markers on a performer’s suit.

Another cool item was **Vuze**, a \$799 3D -360 all-in-one camera that was an honoree at the **CES** innovation awards. Small enough to be used underwater, it is an inch-thick rectangle a little bigger than a CD, with two lenses on each of the four vertical edges. Software auto-stitches images from the eight internal Sony 30 fps HD cameras better than many VR Go Pro demos I have seen. Full-360 images are 4K wide per eye and are stored on a single micro SD card. Simple and easy.

The Vuze demos used MP4 over-under,

360-video format and H.264 video compression, and could be played back on either a HMD or a simple clip-on-phone system from **IdeaLens**. Not high enough quality for GS capture, but ideal for location scouting or family fun.

Or perhaps something far more serious and useful.

Not just for games

The most moving talk of the conference was “VR at the Point of Care” by **David Parker**, who volunteers at Toronto’s **Mount Sinai Hospital** to give terminally ill cancer patients virtual experiences they might otherwise never get to see again. An East Coast fisherman who can’t swim

burst into tears while VR snorkeling the Great Barrier Reef. A 94-year-old librarian just wanted to see her old library.

Parker and his colleagues have discovered that VR images of icebergs can actually lower the body temperatures of burn patients. Parker was amazed that pre-VR pain scale ratings of 7–9 dropped to 0 or 1 (“no pain”) with many of the patients.

The parents of kids with cancer are grateful to let them experience the kinds of place our GS films show, from their beds with VR. Patients prefer real-world images over CGI, so VR has real possibilities as a display medium for GS films, I think, even in 2D, which is what Parker mostly used.

Use in GS theaters

Here are a few of my thoughts for GS theater operators thinking of putting a VR

attraction in their theater lobbies. You will need well-motivated tech staff to manage cables and properly set the headsets’ interocular and focus for visitors’ varying head sizes. As viewers can’t see their bodies once immersed, it also takes a bit of time to teach them the basic controls.

Visitor throughput is a concern, but those in line enjoy watching large 2D monitors that show what the current user is experiencing in 3D VR. Most VR experiences tend to run between three and five minutes, as people can feel a little isolated and self-conscious while wearing the headsets in public places.

HMD hygiene concerns can be addressed with disposable face shields and antiseptic wipes, although I was told not to use baby wipes.

Conclusions

Some might claim that VR has been over-hyped again, following the purchase of Oculus by Facebook. But new technology always takes far longer to become mainstream than one might expect. Consider the fax machine or wireless telephone. VR is by no means dead, but is still rather costly and for now is limited mainly to early adopters and professional users. Very few ordinary people have even experienced a high-end VR or AR demonstration.

Nevertheless, it is clear that there are many good professional applications for VR/AR and that these experiences can be powerfully immersive, as much as or more so than GS theatrical presentations. I urge GS filmmakers and distributors to see VR as a possible aftermarket for giant-screen films, and theaters to look at it as an opportunity to strengthen their educational or entertainment missions.

Gord Harris is a retired engineer with over 40 years of experience in motion imaging, including 14 years working on simulation and visualization at Christie Digital in Kitchener, ON, and 23 years at Imax Corporation in various engineering and technical capacities. He can be reached at gordharris@icloud.com.

THE BIZ

NEWS

Nat Geo exiting GS business

In mid-September, **Antonietta Monteleone**, vice president of film distribution for **National Geographic Cinema Ventures**, sent an e-mail to GS theaters advising them that the company “will no longer produce new film content for the giant screen but instead, [will] work with a sub-distributor to actively manage our library of films.” She wrote that a new distribution partner is being selected and that the current staff — including herself, director of sales **John Wickstrom**, and film distribution coordinator **Melissa Rogers** — will continue to work with theater clients during the transition.

Monteleone declined to respond to *LF Examiner's* requests for additional information.

Starting in 1998 with *Mysteries of Egypt*, Nat Geo has produced nine titles for giant screens and/or fulldome theaters, including *Lewis & Clark: Great Journey West* (2002), *Mysteries of the Unseen World* (2013), and its most recent release, *Extreme Weather* (2016). In addition to distributing those films, the company has acquired the distribution rights to at least 20 other GS films, and several conventional theatrical features.

Giant-screen theaters in six locations carry the National Geographic brand: **COSI Columbus** in Ohio; the **Cradle of Aviation Museum** in Garden City, NY; the **Milwaukee Public Museum** in Wisconsin; the **Museum of Ancient Life in Lehi, UT**; the **National Geographic Visitor Center at the Grand Canyon**; and the **Virginia Aquarium and Marine Science Center** in Virginia Beach, VA. Several other smaller Nat Geo-branded digital theaters are located in other museums in North America. It was not clear if or how this change would affect any of those theaters.

In 2015, **Rupert Murdoch's Fox** media empire acquired National Geographic's media assets, including Cinema Ventures, the cable TV channel, the television production studio, and the venerable magazine. Almost immediately, about 9% of

the 2,000 employees were laid off, including **Mark Katz**, who had headed GS film distribution for nearly ten years.

E&S launches new GS brand

Evans & Sutherland, in partnership with subsidiary **Spitz, Inc.** and **Sonics2**, has launched **AEOS**, a “new generation of ultra-high resolution giant-screen cinema experiences for immersive domes and giant flat-screen theaters,” according to a press release. AEOS theaters will use multiple laser- or xenon-based projectors to present images on full or partial domes and 4:3-aspect-ratio flat screens at resolutions up to 8K, higher than the 4K resolution of single- or dual-projector systems. AEOS systems will be available in four configurations: 6K or 8K for domes, and 6Kx4K or 8Kx6K for flat screens.

Although AEOS will not use the open-standard DCI format, E&S' **Michael Daut** tells *LFX* that “we are exploring the idea of licensing our warping and encoding software so producers and distributors can use the post-production house of their choice to master their films for AEOS.” This would differentiate it from other closed systems, such as IMAX, which use proprietary technology and monopolize the conversion process. Daut adds that a method of encrypting the files for piracy protection is being developed. Theaters that wish to show DCI-compliant content will have the option of adding a separate 4K insert projector.

AEOS theaters will feature sound systems by **Sonics2**, whose CEO, **Lynn McCroskey**, founded **Sonics**, which provided sound systems for IMAX theaters starting in the 1980s and eventually became a subsidiary of **Imax Corporation**.

In October the AEOS dome system was demonstrated at the **Saint Louis Science Center** and at the **Association of Science-Technology Centers** conference at the **Tech Museum of Innovation** in San Jose, CA.

Imax posts Q3 results

On Oct. 26, **Imax Corporation** posted its financial results for the third quarter ending Sept. 30, 2017. In that period the company posted a loss of \$850,000 (–\$0.01 per share) on revenues of \$98.8 million, compared to a profit of \$2.5 million (\$0.04 per share) on revenues of \$86.6 million in the third quarter of 2016. For the nine months ending Sept. 30, Imax reported a loss of \$2.5 million (–\$0.04 per share) in 2017, compared to a profit of \$19.8 million (\$0.29 per share) in 2016.

In the third quarter, the company signed deals for 17 new theater systems, compared to 162 in the third quarter of 2016, a period that included a deal with China's **Wanda** chain for 150 theaters. In the first nine months of 2017, the company has signed deals for 151 theater systems, of which four are upgrades. Imax installed 51 theaters in this year's Q3, compared to 50 in last year's. The current backlog stands at 545, including 25 laser systems, three of which will be upgrades. The worldwide inventory of IMAX theaters stood at 1,302 as of Sept. 30, 2017, compared with 1,145 a year earlier.

In a conference call with investors, CEO **Richard Gelfond** blamed the poor performance of **Marvel's Inhumans** in early September on a “misalignment of customer expectations. Customers expected a production akin to a mega-budget blockbuster movie rather than pilots for a television show. Moreover, the fact that this was Marvel...set the bar at a level you wouldn't see from other [films] because of the reputation and the high production value of Marvel movies.” Although Imax took a write-down of \$11 million on its investment in the production of the first two episodes, Gelfond suggested that some of that loss could be recovered if the show is picked up for a second season on ABC. Nevertheless, he said that the company will “take a more conservative... approach to capital investments in content” in the future.

Imax signs 5-screen deal in China

THE BIZ

PERSONNEL

Imax Corporation has signed a five-theater deal with **Dadi Cinema Group**, the second-largest theater chain in China. The IMAX screens will be built in new multiplexes in China. In January Dadi acquired **Orange Sky Golden Harvest**, a chain that operated five IMAX theaters. The new deal will therefore bring Dadi's total of IMAX screens to ten.

Dailey to retire from NASM

General **Jack Dailey**, director of the Smithsonian's **National Air and Space Museum**, will retire from the position in January 2018. Dailey started at the museum in 2000, and was the longest serving director in its four-decade history.



Gen. Jack Dailey

David Skorton, Secretary of the Smithsonian, said in a message that "among Jack's major accomplishments at the National Air and Space Museum was the opening of the **Steven F. Udvar-Hazy Center** in 2003 to coincide with the centennial of the [Wright Brothers'] first flight. Phase Two of the Udvar-Hazy Center, which includes collections and archival facilities, opened in 2010. Eight major exhibit installations took place during Jack's tenure, as well as numerous small temporary and traveling exhibitions. Since Jack's arrival in 2000, the museum has welcomed more than 140 million people to its two sites, making it one of the highest attended museums in the world. Under Jack's leadership, the museum has raised more than \$350 million."

Before joining the Smithsonian, Dailey was deputy administrator of NASA, and before that served 36 years in the U.S. Marine Corps, starting as naval aviator and rising to a four-star general.

The National Air and Space Museum has one of the world's oldest IMAX theaters, opened with the museum on July 1, 1976. It was upgraded from 15/70 film to

IMAX laser in March 2016.

Potter is new CEO in Baltimore

Mark Potter has become CEO of the **Maryland Science Center** in Baltimore, replacing **Van Reiner**, who retired on Oct. 1. Potter has been the center's vice president of development for the past six years. Before that he was a teacher and administrator at Archbishop Curley High School, a Catholic men's school in Baltimore, and was director of development and executive director at the Basilica of the Assumption Historic Trust, also in Baltimore.



Mark Potter

Reiner started at the center in 2004, coming from Bethlehem Steel's Sparrows Point division, which he headed from 1998 to 2003. Under his leadership, the center launched new exhibits, including "Science & Main" and the Shed DIY space, and improved its sustainability by introducing a green roof, solar panels, and porous paving. He is a member of the board of directors of the **Association of Science-Technology Centers**.

In Memoriam: Barbra Shaw

Barbra Shaw, widow of **Bill Shaw**, died on Sept. 27 at age 87. She is survived by two children and one grandchild. Barbra and Bill had been married for 50 years at his death in 2002. (See *Bill Shaw's obituary* in LF Examiner, October 2002.)

Imax co-founder **Graeme Ferguson** tells *LF Examiner* that he and

Barbra Cross were elementary school classmates in in Galt, ON, Canada, where both met Bill Shaw in 11th grade. Bill and Barbra married in 1952 after he had graduated from the University of Toronto.

Ferguson, **Roman Kroitor**, and **Robert Kerr** co-founded the company that would become **Imax Corporation** in 1967, and immediately hired Bill Shaw as chief engineer. For more than three decades Shaw was responsible for creating or overseeing most of the technical innovations that made shooting and projecting 15/70 film possible. Both of the Shaw's children, **Scott Shaw** and **Cami Kucera**, worked at Imax, as did their son-in-law **Paul Kucera** and Bill's brother **John Shaw**.

Ferguson recalls that "Barb and Bill were avid travelers, and maintained extensive friendships with people over the world. They also were superb singers, and joined church choirs wherever they lived." He adds that in retirement "most of the IMAX principals, including the Shaws, Kerrs, Breukelmans, and Fergusons, ended up on the Lake of Bays [about 100 miles —160 kilometers — north of Toronto], where Robert Kerr's grandfather had once had a sawmill. The Lake of Bays is not a warm lake, and to me the most amazing evidence of Barb's determination was that, except in winter, she swam in the lake every day."



Scott Shaw, Cami Kucera, and Barbra Shaw at a 2002 memorial for Bill Shaw.

300+ People Attended GSCA 2017 in Chicago

Pam Hartley from Marbles Kids Museum in Raleigh, NC.

(from GSCA on page 1)

ty, and open-minded approach to the endeavor, an approach that I think can remain as an example.”

Daniel Ferguson is a producer and director with **Cosmic Picture** whose most recent GS film was *Jerusalem* (2013) and whose next is *Superpower Dogs* (2019). He described three distribution options that new GS producers might consider — self distribution, co- or sub-distribution, and third-party distribution — and discussed the last at length. There are at least eight major GS distributors, and Ferguson listed factors that a new GS producer should consider when selecting a distributor. They include the distributor’s experience and reputation; their slate, and what portion of it your film will represent; limitations and restrictions, such as distributors (like Imax) who will only distribute to certain theaters; deliverables: the list of formats and elements that various theaters require, and what it will cost to create versions in each of those formats; marketing strategies and spending levels; the distribution fee; and the chemistry between the people involved. “You’re partners in

this. It has to be pleasurable. You’re going to be spending a lot of time together, on conferences, on the phone doing launches. Life is just too short for it not to work.”

Pam Hartley is vice president of play initiatives at the **Marbles Kids Museum** in Raleigh, NC. She asked, “with a core audience of two- to six-year-olds and their parents, what are we doing with an IMAX theater?” The predecessor museum to Marbles, **Exploris**, opened in 1999 as an “interactive museum about the world, but that topic — the world — was a little too narrow for Raleigh, and it didn’t work out for us.” Exploris opened its IMAX theater in 2001, and merged with a small children’s museum in 2007 to become Marbles. At the time of the transition, the IMAX theater was supporting the fledgling facility, but as attendance increased to present levels of about 683,000 per year, theater attendance dropped 24%.

As downtown Raleigh was revitalized, three new multiplex IMAX theaters opened within walking distance, forcing the museum to change its ways of doing business. “Our Play Experience team —

exhibits, programs, events, and film programming — really drives the promotional and educational programming of our films and the entire museum to extend the impact of these films, and to bring together the entire mission.” All film booking decisions are now made in bi-weekly staff meetings, and titles include first-run Hollywood features, nature documentaries, and library films for school groups. Last year the theater ran 43 films.

Digital and conventional signage, including elevator wraps, promotes films and other museum events. Board members are shown all IMAX films at board meetings, and are encouraged to help promote them. Educator preview events acquaint local teachers with the newest films. “To bring the IMAX theater and these giant-screen films back into the heart of the operations and the programming and the mission of our institutions is one of the strongest ways forward to impact our kids.”

Professional Development

Moderator **Mary Jane Dodge of MacGillivray Freeman Films** introduced five speakers on the topic of “Champion-Led Cross Collaboration for Best Success.” Seattle’s Diane Carlson told theater managers who may feel that their theater is no longer getting the attention from top management that it once received, “Stop! Do not be a victim! Instead, become the theater champion. Champions are persistent and dogged. We won’t give up.” If the marketing budget has been cut, find other allies within the organization, such as the membership department. Free pre-opening screenings of new films for members can help build word of mouth, the most powerful form of advertising. Arrange test screenings for members and donors of films you’re considering booking. Make sure to have advance staff screenings, at different times of the day and week, for all new films, so that all staffers know about your films and how to promote them.

Make it easy for other departments to

help you out. "If they need three weeks' notice, give them five weeks' notice. Guilt is a great motivator!" Show trailers at staff meetings and board meetings, and run them in the theater at least four months before opening day. "The guests in your theater are the ones most likely to return for another great show." Urge visitors to post reviews on sites like Trip Advisor, the use the best quotes in signage and on your own site. Encourage staffers to use their personal social media outlets to promote the theater.

Mike Day has been with the **Science Museum of Minnesota** for 39 years, and spoke about how it selects and promotes its films. Day was skeptical about MacGillivray's *Dream Big* until the meeting the company held in the spring of 2016 where a fine cut was screened and other museum reps spoke about their engineering exhibits. Persuaded, he booked the film, but not on its opening date in February 2017. He needed more time to plan. In the spring, he sent four staff members to see the film at the **Science Center of Iowa**, a four-hour drive from St. Paul. On the way back they had four hours to talk about "how they're going to launch and program and market and promote the film that they just saw." An unplanned and unexpected team-building exercise.

Previews were held for community leaders, engineering companies, representatives of the American Society of Civil Engineers, and the museum's board of trustees. Along with many other theaters showing *Dream Big*, SMM declared 2018 "The Year of the Engineer," and "put together a full 12 months of programs with *Dream Big* as the centerpiece to promote engineering and inspire the next generation."

When SMM booked *Tornado Alley* in 2011, Day opened it six months after its March opening date. A year earlier, Day had been on location with the film crew and had seen how **Sean Casey's** Tornado Intercept Vehicle – the TIV – attracted tremendous public attention and interest. He realized that the TIV was the star of the show. "The film launched in March. Everybody wanted the TIV for their opening; that meant you'd only get it for a cou-

ple of days. You couldn't have it in the summer because it would be out chasing tornadoes. That's why we scheduled our opening in October." Before the opening, they took the TIV to the Minnesota State Fair, which has two million visitors in 12 days, and then on a seven-city tour around the region, followed by a one-week tour of the Twin Cities. In the week the film opened they removed a wall of the museum to drive the TIV into the museum lobby. All of this generated enormous media and public attention.

In addition new exhibits and live demonstrations about weather were created and the whole package, including the film, was promoted to schools as "The Big Weather Experience." The result was a 29% increase in school group attendance.

"Distributors don't like me so much because I don't open their film when it is released. But I think they like me when we finally do show the film and give them the results they're looking for in terms of attendance. We're always taking the long view."

Chris Hurtubise of **COSI Columbus** recalled how she launched *Pulse: A Stomp Odyssey* in 2003. The museum used the film as the center of a program dubbed "Stomp Look and Listen: the Science of Sound." A project team, with Hurtubise as its leader, created a content-driven experi-

ence in the building's entrance hall. Buckets, trash cans, and other found objects, like those used in the film, were made available to guests to create their own percussive sounds. The opening event featured dance and music groups, and **Keith Middleton**, a Stomp performer who appears in the film, led a drum circle.

Science demonstrations on how the ear processes sound were held every day during spring break, and special screenings for pre-school kids encouraged them to dance and do percussion with small eggshakers that were provided at no cost by a sponsor. Community and student performance groups were brought it to perform and see the film. The overall result was that *Pulse* is the center's third-best performing film. Similar efforts were later made with *Jerusalem*, *National Parks*, and *Dream Big*. "Making [the film] an institutional priority, and having time to show it to your team, particularly your executive team, and articulating what you see as its opportunities," is key to a film's success.

Edgar Rodriguez has been with Mexico's **Tijuana Cultural Center** since 2003 and became manager of its IMAX Dome theater in 2008. The theater has an annual attendance of 277,000, about 14% of the nearly two million visitors the 35-year-

(see *GSCA* on page 8)



Filmmaker Sean Casey's Tornado Intercept Vehicle in the Science Museum of Minnesota.



Mexican actor and narrator Mario Iván Martínez appeared as Van Gogh at the premiere in Tijuana.

(from *GSCA* on page 7)

old museum receives. The dome is a widely recognized icon throughout Tijuana, so all of the posters and other promotional materials for the theater feature an image of it. Word of mouth promotion of GS films starts with screenings for museum staff, who are encouraged to mention them on their social media.

For *Van Gogh: Brush with Genius*, the center invited **Mario Iván Martínez**, the popular Mexican actor who narrated the Spanish language version of the film, to the premiere. “For you, it’s not that easy to have [narrators] **Jennifer Lawrence** or **Robert Redford** at your red carpet event, but for us it’s a little easier,” and Martínez’s presence guaranteed lots of media attention. The actor arrived dressed and made up as Van Gogh, and delivered monologues from a play about the artist he was inspired to write after working on the project.

A local set designer designed and built a reproduction of a bedroom from a famous Van Gogh painting that appears in the film. Placed in the museum’s entrance, it helped remind visitors about the film.

Technical sessions

Two technical sessions were held, one in each theater. In both, footage captured by cinematographer **James Neihouse** for the “Save Our Aspect Ratio” (SOAR) test was presented by **Rick Gordon** of **RPG Productions**. (See the article in the September issue about shooting the SOAR tests.) Daniel Ferguson also showed some clips of camera tests shot for *Superpower Dogs* that compared the RED Weapon Helium camera and the Alexa 65 in various situations of extreme dynamic range and frame rates.

Nancy Wang of **Legend 3D** made the case for 3D conversion by presenting several cases in which shooting native 3D would have been impractical or impossible. Underwater shooting in 3D can be particularly challenging and expensive, which often makes post conversion a more desirable option. She was joined by producer **Myles Connolly**, who pointed out that when shooting in 3D you are paying for 3D for everything you capture, even footage that will not be used. With post conversion you only pay for the 3D of the material you will use in the final film. However, not every 2D shot can be con-

verted realistically, so it’s important to involve the conversion specialists as early in the process as possible.

Tim Archer of **Master’s Digital** updated his previous conference presentations on multi-channel location recording with new material he recorded for **Spirit Bear Entertainment’s** *Great Bear Rainforest*. He described the Ambisonic recording process that uses four microphones in a specific spatial configuration to capture the aural ambience of a location, the sonic version of a wide shot. He uses compact digital recorders from Sound Devices and Zoom and software that converts the Ambisonics sound field recordings to the speaker configuration appropriate for the theater: 5.1, 7.1, 6.0 (IMAX), 12.0 (IMAX laser), etc.

At the conclusion of the presentation he played a haunting audio clip he recorded — from just a few yards away! — of a wild wolf howling in British Columbia’s Great Bear Rainforest.

Awards

The GSCA presented its annual achievement awards, recognizing excellence in giant-screen filmmaking, marketing, and lifelong learning. In addition, Imax Corporation presented its Maximum Image Awards during the ceremony.

Filmmaker **George Casey**, who died in June, was posthumously awarded the association’s Outstanding Achievement Award. GSCA president **Gordon Stalans** read comments from **Paul Novros**, a longtime collaborator of Casey’s, who recalled how the offices of **Graphic Films** ran out of space to display all of the awards that Casey’s films had won at national and international film festivals. Sean Casey, a GS filmmaker in his own right, read excerpts from letter his father wrote at age 29:

I am unhappy enough and neurotic enough to want or even need to write. I do it because I feel better about myself when I do, and because enough people who don’t like me tell me that I have talent. That sweaty little gland in me that runs these things tells me that I have I have some things to say — however small — and I do feel that any talent — again, however small — comes with a matching obligation to develop and use

it.

I believe in free will. I believe man's responsibility, if not duty, is to respect, if not serve, the interests of others. And I do not mean humanity, alone, but the totality of life.... I believe that love is the most remarkable of human emotions. That knowledge of death is the most governing.

Sean Casey concluded, "My father lit a torch for me. I can only hope I burn half as bright as he."

Two titles dominated the film awards and also shared the award for Best Film, Short Subject, in a tie: **SK Films' Amazon Adventure**, and MacGillivray Freeman's *Dream Big: Engineering Our World*. The former also won Best Film for Lifelong Learning, Best Cinematography, Best Sound Design, and Best Original Score. The latter won Best Visual Effects and Best Marketing Campaign by a Distributor.

Rogue One: A Star Wars Story won Best Film, Feature Length.

The **Museum of Discovery and Science** in Fort Lauderdale FL, won the Best Theater Marketing Campaign award for its "IMAX With Laser" rebranding campaign.

The Best Film Launch by a Theater was a tie, won by the **Denver Museum of Nature and Science** for *Extreme Weather*, and Australia's **IMAX Theatre Melbourne** for *A Beautiful Planet*.

Best Educational Program went to the **Carnegie Science Center** in Pittsburgh, PA, for *Dream Big*.

The Big Idea award went to **National Geographic** for its *Extreme Weather* webinar series.

The GSCA's Big Shoe award, selected by GSCA staff to recognize exemplary volunteers, was also a tie, and was presented to Daniel Ferguson of Cosmic Picture, and **David Ripper** of the **Bullock Texas State History Museum** in Austin.

Imax Corporation inducted *Deep Sea* (2006) into its Hall of Fame, which honors giant-screen films at least 10 years old, as voted on by IMAX theaters. The Best IMAX Booth award was presented to four theaters: the **BFI IMAX Theater** in London; the IMAX Theatre at the Bullock Texas State History Museum; **Filmstaden**

The GSCA honored the late George Casey with the Outstanding Achievement Award.

Scandinavia and IMAX in Stockholm, Sweden; and the **Hackworth IMAX Dome Theater** at the **Tech Museum of Innovation** in San Jose, CA.

And finally, the Chief Quality Officer Award of Distinction was presented to filmmaker **Christopher Nolan**, director of *Dunkirk*.

LF Examiner's coverage of the 2017 GSCA conference will conclude in the December issue.

The following people contributed to the success of the 2017 GSCA conference:

GSCA staff: **Tammy Seldon, Kelly Germain, Eileen Pheiffer.**

Volunteers: **Jenn Bentz Borcharding, John**

Lewis, Araceli Ripper, David Ripper, Cherie Rivers, Dick Vaughan, Alvis Wales.

Navy Pier IMAX: **Rey Costilla, Jeff Semlow, Kasia Pluta.**

D3D Cinema: **Don Kempf, Andy Wood, Scott Fateaux, Art Mercurio.**

Imax Corporation: **David Keighley, Patricia Keighley, Joe Alaniz, Richard Mohabir, John Engracia, Arbi Derzakharian, Christian Straub, Nim Ornillo, Philip Kronenberg, Sarah Sheldon, Kevin Holtsbery.**

Museum of Science and Industry: **Gil Perez, Liz Villalobos, Mark Harrison, Jim Patriarca, Jeffrey Gardner, Arie Edelson.**

SK Films' Amazon Adventure won four awards. Producer Jonathan Barker and director Mike Slee at lectern.

New Films at the 2017 GSCA Conference

<p>Aircraft Carrier: Guardian of the Seas</p> <p>K2 Communications Release Date: 6/17/2016 Format: 3D Length: 43 min.</p> <p>The mission to protect and defend the world's oceans has become far more complex and challenging in recent years, and naval aviation has become increasingly vital to success. One of the greatest engineering feats in the history of warfare, the modern Nimitz-class carrier is a masterpiece of technology. With RIMPAC, the world's largest and most comprehensive international maritime training exercise providing the visual context for the story, audiences will find themselves aboard a carrier alongside the 6,000 highly skilled sea and air personnel in the midst of the simulated war exercises taking place there. Rarely has there been a topic so visually suited and compelling for IMAX theaters and other giant screens.</p>	<p>Extreme Weather</p> <p>National Geographic Studios Release Date: 10/15/2016 Format: 3D Length: 40 min.</p> <p>Weather is one of the most dynamic forces shaping our planet, but now it's more complex and extreme than ever. Join famed storm chaser and award-winning filmmaker Sean Casey to experience our most <i>Extreme Weather</i>. Travel to the edge of 300-foot-tall glaciers collapsing in Alaska, to the front lines of massive wildfires in the West, and directly in the path of deadly yet mesmerizing tornadoes in the plains. Watch as researchers and everyday heroes uncover surprising connections to help us understand and adapt to our ever-changing weather.</p>
<p>Amazon Adventure</p> <p>SK Films, Inc. Release Date: 4/18/2017 Format: 3D Length: 45 min.</p> <p><i>Amazon Adventure</i> tells the epic, true story of explorer Henry Bates' 11-year journey through the visually stunning and bio-diverse Amazon rainforest as a young man who risks his life for science. Experience the compelling clues Bates uncovers in his major science discovery of the rare phenomenon of mimicry, whereby certain animals adopt the look of others, which helps them deceive predators and gain an advantage to survive. Bates, the scientific hero you've likely never heard of, made other crucial contributions: identifying 8,000 species new to science, most importantly, putting forward the first ever case for the creation of a new species, which Charles Darwin called the "beautiful proof" for his theory of Natural Selection. Viewers will be wowed by over 80 different animals, mind-boggling examples of camouflage and mimicry, and inspired by Bates' endless curiosity and determination to explore and understand the natural world around him.</p>	<p>Global Soundscapes: Mission to Record the Earth</p> <p>Foxfire Interactive Corporation Release Date: 7/31/2016 Format: 3D Length: 40 min.</p> <p>Our world is full of sound! <i>Global Soundscapes</i> takes you on an ear-opening journey into the science of sound and the emerging field of soundscape ecology. Explore basic acoustics in this educator-led participatory theater experience with incredible slow-motion footage of pulsating musical instruments, vibrating vocal chords, and more. Investigate the dramatic soundscapes of Costa Rica's rainforests, Hawaii's coral reefs, and Mongolia's vast grasslands. Learn how animals use sounds to survive and communicate in lush, but threatened, environments. Discover what soundscapes tell us about the health of our planet. With <i>Global Soundscapes'</i> unique format—combining giant-screen imagery, surround sound, and live presentation—you'll hear the Earth in a whole new way!</p>
<p>America's Musical Journey</p> <p>MacGillivray Freeman Films, Inc. Release Date: 2/28/2018 Format: 3D Length: 40 min.</p> <p>Jazz, blues, zydeco, old time country music, and many other variations on America's musical heritage are at the heart of <i>America's Musical Journey</i>, a giant-screen film celebrating America's vibrant cultural, artistic, and musical treasures that reflect the diversity of our nation. Join a group of emerging musicians and discover the colorful locales and cultures where their music is born. Travel up the Mississippi Delta, the birthplace of jazz and blues, and explore the genre's evolution into Motown, hip hop, and rap. Discover the roots of bluegrass, country, folk, and more from Nashville to the Wild West. Jam with rockers and pop stars on the West Coast and dance all night at an electronica festival. <i>America's Musical Journey</i> is a musical ride that will have you singing and dancing across the nation. Available February 2018.</p>	<p>Hearst Castle: Building the Dream</p> <p>Destination Cinema, Inc. Release Date: 8/17/1996 Format: 2D Length: 39 min.</p> <p><i>Hearst Castle: Building the Dream</i> tells the story of a visionary, William Randolph Hearst, and the enchanted castle that he built on a hilltop along California's central coast. In 1893, Hearst, then 10, traveled with his mother to Europe, "the Grand Tour," they called it. In England, Germany, Switzerland, and Italy young William became fascinated with the artwork, sculpture, glassworks, and everyday artifacts he saw. The images he saw there stayed with him into adulthood. Fifty years later—after building one of the greatest media empires in the world and creating a fortune—Hearst and an odds-defying architect, Julia Morgan, built an enchanted castle for the ages, exquisite in design, and filled with artistic treasures throughout. A dream place and mecca for stars of the silver screen. This amazing story serves as an example to all of us to honor our own dreams, and make them a reality.</p>
<p>Backyard Wilderness</p> <p>Archipelago Films Release Date: 3/31/2018 Format: 3D Length: 42 min.</p> <p><i>Backyard Wilderness</i> reveals the unexpected wonders of nature that take place right under our noses in backyards and communities across North America. Spanning a seasonal year around a suburban home within commuting distance of New York City, the film displays a stunning array of unique wildlife activity, from astounding macro shots to amazing family behaviors—including mothers with offspring—all captured by cameras mounted inside dens and nests, and moving along the forest floor and pond bottom, to show nature and its habitats, in rare intimacy. The human story focuses on a young girl's awakening to the intricacies and joys of nature. She and her modern family, living next to the woods, are at first blind to the real-life spectacle around them, absorbed by an array of electronic devices in their busy lifestyle. The film reminds us that wi-fi is not the only connection that matters.</p>	<p>Hurricane</p> <p>Ouran Films Release Date: dsf Format: 3D Length: 44 min.</p> <p>This is the true story of a 15,000-kilometer journey in the footsteps of one of the most devastating natural events on our planet: the Atlantic hurricane. Our protagonist is both shatteringly destructive and vital to life on earth. At its conception it is just a breeze. As it sweeps across the African Sahel it becomes a life-giving monsoon before setting out across the Atlantic as a deepening depression. The hurricane is the film's main character, but the supporting cast is the men, women, plants, and animals that it encounters on its journey and affects in some way, for better or for worse. We will experience the storm in 3D. Serene and exquisitely beautiful from space, at ground level in the face of the screaming wind, it is nothing less than terrifying.</p>
<p>Conquest of the Skies</p> <p>Colossus Productions Release Date: 3/31/2017 Format: 3D Length: 40 min.</p> <p>The ability to fly is one of the greatest wonders in the natural world. Millions of creatures soar above our heads today. But how did animals make the incredible transition from land to air? <i>Conquest of the Skies</i> uses the very latest science and stunning special effects to uncover the 320-million-year story of flight, and it's not simply about birds. Using advanced 3D filming technology, we capture the beauty and excitement of the whole world of flying creatures, from the fastest predatory falcons to the most acrobatic of insects; night flyers like owls and bats, and the soaring and gliding specialists capable of traveling huge distances. Audiences will enter the truly amazing world of these animal aviators, and leave the theater both stunned by the spectacle and thrilled by the story of how animals rose up and conquered the skies.</p>	<p>Incredible Predators</p> <p>BBC Earth Release Date: dsf Format: 3D Length: 40 min.</p> <p><i>Incredible Predators</i> deconstructs the world of major predators as never before, taking an intimate look at the remarkable strategies they use to succeed. Unveiling the most dramatic events, <i>Incredible Predators</i> tells the story of the contests between predators and their prey, showcasing how these supreme species have to be at the very peak of performance to have any chance of success. Advanced filming techniques expose the planet's top predators in extraordinary footage. Using new high-resolution thermal cameras, <i>Incredible Predators</i> reveals the stealth of the leopard. For the first time, we capture the polar bear in action with four different hunting techniques used in the summer. Come on the journey as we follow them into the midst of the pack ice as they hunt for bearded seals. Alongside dramatic animal behavior, spectacular sceneries, and aerials, the film reveals the unique relationship between the planet's predators and prey as a fundamental building block of ecology.</p>
<p>Dream Big: Engineering Our World</p> <p>MacGillivray Freeman Films, Inc. Release Date: 2/17/2017 Format: 3D Length: 40 min.</p> <p>Narrated by Academy Award-winner Jeff Bridges, <i>Dream Big: Engineering Our World</i> transforms how we think about engineering. From the Great Wall of China and the world's tallest buildings to underwater robots, solar cars, and smart, sustainable cities, <i>Dream Big</i> celebrates the human ingenuity behind engineering marvels big and small, and shows how engineers push the limits of innovation in unexpected and amazing ways. With its inspiring personal stories and extraordinary visuals for the world's largest screens, <i>Dream Big</i> reveals the compassion and creativity that drive engineers to create better lives for people and a more sustainable future for us all.</p>	<p>Mysteries of China</p> <p>Giant Screen Films Release Date: 9/1/2016 Format: 3D Length: 38 min.</p> <p><i>Mysteries of China</i> captures one of the great archaeological events in modern times, telling the story of ancient China, the First Emperor, and the literal foundation of the China we know today. Starting with modern China and springing back as we seek the birth of this mighty nation, we talk of an ancient time when a fierce warrior brought together a warring nation, and how an accidental discovery changed everything we know about China's past. It happened in 1974, when farmers digging a well in Xi'an stumbled upon one of the greatest archaeological finds the world had ever discovered: the terracotta warriors and the tomb of the First Emperor. The terracotta warriors offer a unique time capsule into the past, revealing many things about the very founding of this great country, which we use to tell a larger story of the growth of China into a true superpower. From modern China to ancient China and back again, the film is a visual adventure, using beautiful aerial photography and cutting-edge time-lapse techniques to reveal great majesty, tragedy, splendor, and growth in a nation that continues to excel quickly into the future.</p>

<p>Planet Power</p> <p>N3D Land Films Release Date: 2018 Format: 3D Length: 38 min.</p> <p><i>Planet Power</i> tells the story of electricity, from the first spark created by man's hand to the largest power plants; from the age of miracles to that of industry; from Benjamin Franklin's kite to Solar Impulse, the first solar-powered plane capable of perpetual flight. Thus it is also a story of pioneers, scientists, and inventors, one that began 200 years ago, driven by innovation. Today electricity is indispensable to mankind. The energy of choice for innovation and development, electricity is also the energy of our future, as long as it is produced in a cleaner and more sustainable way. By mixing traditional animation and CGI with spectacular aerial shots, <i>Planet Power</i> shows how renewable energy can help us fight climate change while improving our quality of life and protecting the environment. Now, thanks to clean technologies, the greatest forces of nature can help make our planet cooler and our future better.</p>	<p><u>The Trolley That Saves the World</u></p> <p>Stephen Low Company Release Date: 9/30/2017 Format: 2D Length: 46 min.</p> <p><i>The Trolley that Saves the World</i> propels giant-screen audiences through the great cities of the globe to tell the story of one of civilization's most remarkable inventions. The electric streetcar, tram, or trolley was a ride that changed everything. Across a century and a half, trolleys carried billions of people to work and play and home again. Gifted with extreme efficiency and an egalitarian outlook, the device helped revitalize and rebuild the urban landscape. <i>The Trolley that Saves the World</i> follows this unique and evolving machine: from its perfection at the hands of a 19th century inventor and its explosive global adoption, to its engagement in two World Wars; from its devastating collision with the automobile age to its 21st century renaissance. Step aboard the talented electric trolley for a bell-ringing musical ride across the eras and through 34 cities and 15 countries.</p>
<p><u>The Search for Life In Space 3D</u></p> <p>December Media Release Date: 10/7/2016 Format: 3D Length: 32 min.</p> <p>For science the heavy lifting is over, a new era of space exploration has begun. It's the search to find something that changes everything: signs of life somewhere else in the universe. NASA is breaking ground on a new brand of science: astrobiology. We already know that life in space exists, because that's what we are, as are all things that live on our planet. <i>The Search for Life In Space</i> is a journey that takes us from the depths of the Pacific Ocean to Europa, the ice moon of Jupiter, back in time to when Mars was a virtual Eden, and out into the far reaches of space in search of planets like ours. It will make you re-examine such fundamental questions as: "Where did we come from?" "How did we get here?" and "Are we alone?"</p>	<p><u>Volcanoes: The Fires of Creation</u></p> <p>Digital Crossing Productions Release Date: 3/31/2018 Format: 3D Length: 40 min.</p> <p>There are few forces on earth that equal the explosive power and natural beauty of erupting volcanoes. They hold us in awe and in fear. Yet volcanoes are earth's master builders, shaping and reshaping the surface, giving birth to some of the most spectacular and biologically diverse landscapes. From the jungle habitats of the mountain gorilla, to the Serengeti Plains and the underwater paradise of the Komodo Islands, all have been forged by fire. There are over 500 active volcanoes on earth, on a sea of rolling magma beneath the crust and shifting tectonic plates. The earth is literally bursting at its seams. Join us as we explore some of the hottest spots on the planet. Human beings have bent the natural world to our will; mining its riches, cutting down forests and paving over natural spaces. But while scientists can increasingly predict them more accurately, volcanoes cannot be tamed.</p> <p><u>We, The Marines</u></p> <p>MacGillivray Freeman Films, Inc. Release Date: 7/31/2017 Format: 2D Length: 40 min.</p> <p><i>We, The Marines</i> is an action-packed, giant-screen film that immerses audiences in the unparalleled experience of becoming and serving as a member of the U.S. Marine Corps. Narrated by Academy Award-winning actor and former marine Gene Hackman, the film uses the giant screen to honor the dedication, the service, and the first-hand experiences that create the undeniable bonds among America's "first responders." The result is an inspirational and moving tribute to the lives and legacy of the men and women who honor and defend our country. Produced in association with the Marine Corps Heritage Foundation and the National Museum of the Marine Corps.</p>

Films in Production at the 2017 GSCA Conference

<p><u>Ancient Australia</u></p> <p>Wild Pacific Media Release Date: 2/1/2018 Format: 3D Length: 40 min.</p> <p>Few places on earth remain as wild and pristine as the top end of Australia. It's a land that time forgot—in the dry season huge bushfires ravage the ancient landscape and in the wet the world's biggest thunderstorms bring torrential rain and flooding. These almost Jurassic conditions have created some of the richest wetlands on earth and harbor the oldest rainforests on the planet. They also create the perfect conditions for some of the deadliest creatures on the planet. The largest dinosaurs known to man left their foot prints in these ancient rocks and one of their deadly relatives still lives here today. Come with us on an epic scientific adventure through some of the most beautiful landscapes on earth as we take you deep into salt water crocodile country.</p>	<p><u>Cuba</u></p> <p>Golden Gate 3D Release Date: 3/31/2018 Format: 3D Length: 40 min.</p> <p><i>Cuba</i> tells the powerful story of a land preserved in time, a country poised on the cusp of dramatic change. The vibrant culture, meticulously maintained colonial architecture, and pristine ecosystems all provide a profound window to the past. <i>Cuba</i> will transport audiences across breathtaking island landscapes, taking them from groundbreaking scientific exploration beneath the Caribbean Sea to streets filled with music and dance in the heart of Havana. Through the eyes of Cuban artists, historians, and scientists, audiences will have a rare chance to see this amazing country at a pivotal time in its history. Filmed for the first time in 3D and exclusively for the giant screen, the film will reveal why Cuba continues to stir the imagination of the world.</p>
<p><u>Ancient Caves</u></p> <p>Oceanic Research Group Release Date: 2019 Format: 2D Length: 40 min.</p> <p><i>Ancient Caves</i> tells the story of a young cave researcher from the United Kingdom, Dr. Gina Moseley, working with a team from the University of Innsbruck. Dr. Moseley, a paleoclimatologist, and her colleagues venture into caves to retrieve geologic "fingerprints" that reveal the climate history of our planet for the last 500,000 years. The production will capture extreme caving expeditions in France, the U.S., the Bahamas, and the Yucatan Peninsula of Mexico. The production is being directed by Jonathan Bird in conjunction with MacGillivray Freeman Films and the Giant Dome Theater Consortium. Image capture is being done with a 15/70 film camera and a RED 8K digital camera. Only the giant screen can deliver the ultimate experience and adventure of exploring ancient caves worldwide to uncover the intriguing history of our planet. <i>Ancient Caves</i> is being produced specifically for giant dome theaters, shot in 2D with fisheye lenses. It is perhaps the first film in 30 years being produced just for domes.</p>	<p><u>The Dolphin Ambassador</u></p> <p>Milbrand Cinema Release Date: 2018 Format: 2D Length: 40 min.</p> <p>Come along on a fantastic journey to swim with dolphins and dive the Mesoamerican Barrier Reef, the world's second largest coral reef. This is the story about a special Atlantic bottlenose dolphin named Han and the ocean he calls home. Han is remarkable because his life has bridged two worlds. One of living in the wild and instinctively caring for himself, and the other, living within managed care where food and companionship are provided. The heart of the storyline is that Han and some of his buddies are allowed to leave their enclosure every day and swim in the open ocean. What could they encounter along this magnificent reef? Will Han and his buddies choose to return to managed care or decide to live on their own in the wild? This freedom of choice is intriguing and creates a bond between an iconic marine mammal and mankind. Dolphin specialist and star of the MacGillivray Freeman Film <i>Dolphins</i> from 2000, Kathleen Dudzinski, Ph.D., will be a scientific advisor for the project and appear on camera. People who have dedicated their lives to working with dolphins will be highlighted. The project's working title was <i>In the Wake of the Dolphin</i>; it has been changed to a title that translates well into all languages: <i>The Dolphin Ambassador</i>.</p>
<p><u>Antarctica: The Frozen Time Capsule</u></p> <p>NHK International Release Date: 7/31/2018 Format: 2D Length: 45 min.</p> <p>A team of NHK crew and SETI scientists embark on an expedition to Antarctica to unlock the secrets behind how Earth became so full of oxygen. Antarctic underwater lakes are known to hide pristine primordial ecosystem still today. At an ice-covered lake on Antarctica more than 100 kilometers away from the nearest station, the team bored a hole in the thick ice and started dives to capture the underwater world in 8K 60fps. In the bottom of the lake an ancient strain of bacteria is still thriving, silently producing oxygen just as they did in the primordial sea billions of years ago and forming a mysterious micro-biotic landscape of unearthly beauty; the lake bottom seems as if an alien planet. This unique, precious time capsule of Earth's history will be presented for the first time ever in stunningly high resolution video images and a higher frame rate.</p>	<p><u>Elephant</u></p> <p>Wild Expectations, Ltd Release Date: 2019 Format: 3D Length: 40 min.</p> <p>Experience elephants as you have never experienced them before. The film is a visually stunning, intimate story about the most majestic and sentient animals in Africa. It stars a charismatic elephant matriarch and her extraordinary family, as they encounter nature at its most generous and at its most harsh. It is the story of the creatures large and small that inhabit a watering hole before the dry season sends the elephant family on a challenging and heart-wrenching journey. Young and old will fall in love with the elephants and the animals that share their world. Filmed over four years in the African bush for the large screen.</p>

Continued on page 14



* New listing.

All films are 3D unless noted; underlined titles are 2D.

Updated information is printed in **bold**.

Unless noted, all films run about 40 minutes.

Some titles with limited release territories are not listed.

Star Wars: The Last Jedi

LucasFilm Ltd.; distributor: Walt Disney Pictures; director: Rian Johnson. Cast: Carrie Fisher, Daisy Ridley, Mark Hamill, Adam Driver, Domhnall Gleeson, Oscar Isaac, Peter Mayhew, Gwendoline Christie, Benicio Del Toro, Warwick Davis, Anthony Daniels, Andy Serkis. DMR. Release: Dec. 15.

Mountain Quest (wt)

Stranger Than Fiction Films; distributor: K2 Communications; director: Jennifer Peedom; producers: Jennifer Peedom, Jo-anne McGowan; DP: Renan Ozturk; script: Jennifer Peedom, Robert Macfarlane, Mose Richards; score: Richard Tognetti; executive producer: David Gross. Narrator: Willem Dafoe. Release: December.

Hidden Pacific

Giant Screen Films, Tandem Stills; distributor: Giant Screen Films; director, producer: Ian Shive. Release: late 2017.

– September: Filmed active volcanoes in Hawaii's Volcanoes National Park.

– Principal photography has wrapped.

Pono: The Secret of Hawaii

Happy Planet Productions; distributor: tba; director, DP, writer: Pierre Hugues Routhier; producers: Richard W. Kroon, Margaret Goode; score: Cody Westheimer; executive producers: Pierre Hugues Routhier, Richard W. Kroon. Cast: "Uncle" Earl Kama-kaonaona. Release: 2017.

Touch the Stars

Afterglow Studios; distributor: BIG & Digital; director: Luke Ployhar; producers: Luke Ployhar, Ashley Jahnke; script: Barry Thorson. Release: early 2018.

Fifty Shades Freed*

The third installment in the Fifty Shades franchise. Universal Pictures; distributor: Universal Pictures; director: James Foley. Cast: Dakota Johnson, Jamie Dornan, Arielle Kebbel, Tyler Hoechlin, Kim Basinger, Dylan Neal, Marcia Gay Harden. DMR. 2D. Release: Feb. 9, 2018.

Nov '17

Jan '18

Jul '18

Thor
JusLea

SW8
MouQue
HidPac
Pono

TTS
TraTim

FSF
BlaPan
AMJ
AncAus
TurOdy

Alpha
TR
PRU
RPO
Volcan

BacWil
Cuba
HIOF

AIW
ISR
HanSol
Oceans

JWFK
Pandas

Black Panther

Marvel Studios; distributor: Walt Disney Pictures; director: Ryan Coogler. Cast: Andy Serkis, Chadwick Boseman, Martin Freeman, Forest Whitaker, Angela Bassett, Lupita Nyong'o. DMR. 2D. Release: Feb. 16, 2018.

America's Musical Journey (wt)

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films; director: Greg MacGillivray; producer: Shaun MacGillivray; script: Stephen Judson; DP: Brad Ohlund; score: Steve Wood; cast: Aloe Blacc. Release: February 2018.

– October: filmed in Nashville and Memphis.

Ancient Australia

Wild Pacific Media; distributor: K2 Communications; director, DP: Nick Robinson; executive producers: John Weiley, David Gross, John Maynard, Mark Kresser. Release: February 2018.

– Principal photography has wrapped.

Train Time (wt)

Stephen Low Company; distributor: Stephen Low Company; director: Stephen Low; producer: Pietro Serapiglia. 2D. Release: February 2018.

Turtle Odyssey (wt)

Definition Films, Ocean 3D Films; distributor: SK Films; director: John Weiley; producer: David Gross; DP: Jon Shaw; script: John Weiley; executive producer: Jonathan Barker. Release: February 2018.

Hawaii: Islands of Fire (wt)

Ring of Fire Films, Inc.; distributor: tba; director, DP: Michael Lienau; producers: Jacob Lienau, Michael Lienau; script: Tab Murphy, Paul Quattrocchi, Michael Lienau; executive producer: David Cunningham. Release: early 2018.

Alpha*

A story of survival set 20,000 years ago during the last Ice Age. Columbia Pictures; distributor: Columbia Pictures; director: Albert Hughes. Cast: Kodi Smit-McPhee, Leonor Varela, Natassia Malthe, Mercedes de la Zerda, Jóhannes Haukur Jóhannesson, Jens Hultén. DMR. 2D. Release: March 2, 2018.

Tomb Raider*

Lara Croft, the fiercely independent daughter of a missing adventurer, must push herself beyond her limits when she finds herself on the island where her father disappeared. Warner Bros.; distributor: Warner Bros.; director: Roar Uthaug. Cast: Alicia Vikander, Walton Goggins, Hannah John-Kamen, Dominic West, Nick Frost, Daniel Wu. DMR. 2D. Release: March 16, 2018.

Pacific Rim: Uprising*

Jake Pentecost, son of Stacker Pentecost, reunites with Mako Mori to lead a new generation of Jaeger pilots, including rival Lambert and 15-year-old hacker Amara, against a new Kaiju threat. Universal Pictures; distributor: Universal Pictures; director: Steven S. DeKnight. Cast: Scott Eastwood, Adria Arjona, John Boyega, Tian Jing, Rinko Kikuchi, Charlie Day, Burn Gorman. DMR. 2D. Release: March 23, 2018.

Ready Player One

Amblin Entertainment; distributor: Warner Bros.; director: Steven Spielberg. Cast: Hannah John-Kamen, T.J. Miller, Mark Rylance, Olivia Cooke, Ben Mendelsohn, Simon Pegg, Tye Sheridan. DMR. Release: March 30, 2018.

Volcanoes: The Fires of Creation

Digital Crossing Productions; distributor: SK Films; director, writer, DP: Michael Dalton-Smith; score: Robert Kroledge; executive producers: Michael Dalton-Smith, Jonathan Barker. Cast: Carsten Peters. Release: March 2018.

Final shoot will be in Ethiopia.

Avengers: Infinity War

Marvel Studios; distributor: Walt Disney Pictures; directors: Anthony Russo, Joe Russo. Cast: Chris Pratt, Tom Holland, Josh Brolin, Scarlett Johansson, Zoe Saldana, Elizabeth Olsen, Chris Evans, Chris Hemsworth, Bradley Cooper, Tom Hiddleston, Benedict Cumberbatch, Vin Diesel, Robert Downey Jr. DMR. Release: May 4, 2018.

In Saturn's Rings

SV2 Studios; distributor: BIG & Digital; director, producer, writer, executive producer: Stephen van Vuuren. 2D. Release: May 4, 2018 (flat and dome version); fall 2018 (fulldome).

– September: was at the Jet Propulsion Lab for the Grand Finale of Cassini.

Untitled Han Solo Star Wars Film

LucasFilm; distributor: Walt Disney Pictures; director: Ron Howard. Cast: Alden Ehrenreich, Woody Harrelson, Donald Glover. DMR. Release: May 25, 2018.

Backyard Wilderness

Archipelago Films, Arise Media; distributor: SK Films; directors, producers, script: Andrew Young, Susan Todd; score: Gil Talmi; DP: Andrew Young. Release: Spring 2018.

– Principal photography is complete. Editing has begun.

Cuba

Golden Gate 3D; distributor: Giant Screen Films; director, producer: Peter Chang. Release: Spring 2018.

Oceans: The Blue Planet

BBC Earth, Alucia Productions; distributors: BBC Earth, Giant Screen Films. Release: Spring 2018. Principal photography is complete.

Pandas: Return to Nature

Imax Corporation; distributor: Imax Corporation; director: Drew Fellman. Cast: Ben Kilham. Release: Spring 2018.

Jurassic World: Fallen Kingdom

Universal Pictures; distributor: Universal Pictures; director: J.A. Bayona. Cast: Chris Pratt, Bryce Dallas Howard, Jeff Goldblum, James Cromwell, Toby Jones, BD Wong, Rafe Spall. DMR. Release: June 22, 2018.

Avatar 2

Lightstorm Entertainment; distributor: Twentieth Century Fox; director: James Cameron. Cast: Zoe Saldana, Sigourney Weaver, Sam Worthington, Stephen Lan. Release: Dec. 21, 2018. DMR.

Avatar

OOB

SOTU

FTC SOE GBReef PlaPow
olAmb FeaDin MaxPow Snow

GBRain SerSto SupDog

FirStep

AncCav BFTB Eleph EIU, RTE →

Antarctica: Frozen Time Capsule (wt)

NHK (Japan Broadcasting Corporation); distributor: tba; director: Yoshinori Tsutsui; producer: Takuya Yoshida; DP: Takeshi Matsushita; script: Yoshinori Tsutsui; score: Shiho Terada; executive producer: Takeshi Shibasaki. 2D. Release: 2018.

The Dolphin Ambassador (wt)

Milbrand Cinema; distributor: MacGillivray Freeman Films; director, producer, DP: Lance Milbrand; editor: Dave Choice; score: Icarus Music. Cast: Kathleen Dudzinski, Eldon Bolton. Release: tba.
– September: Filmed in Honduras.

The Story of Earth (wt)

December Media; distributor: MacGillivray Freeman Films; director: Russell Scott; producers: Stephen Amezdroz, Matt Downey; script: Don Hahn; executive producers: Tony Wright, Stuart Menzies. Release: 2018.

Feathered Dinosaurs (wt)

Saint Thomas Productions; distributor: K2 Communications. Narrator: James Faulkner. 2D. Release: 2018.

Great Barrier Reef 3D (wt)

December Media; distributor: MacGillivray Freeman Films; directors: Stephen Amezdroz, Richard Fitzpatrick; producers: Stephen Amezdroz, Matt Downey; script: Don Hahn; executive producers: Tony Wright, Stuart Menzies. Release: 2018.

Maximum Power

Masters Digital, 144 Productions; distributor: tba; director: Daniel Stewart; producers: Daniel Stewart, Tim Archer; executive producer: Domingo Vergoossen. Release: 2018.

Planet Power

N3D Land Films; distributor: nWave Pictures; directors: Pascal Vuong, Ronan Chaplain; producers: Catherine Vuong, Pascal Vuong; script: Pascal Vuong; DP: Vern Nobles; score: Franck Marchal; executive producers: Franck Savorgnan, Christian Fry. Cast: Bertrand Piccard, André Borschberg. Release: 2018.

Snow

Ouragan Films; distributor: nWave Pictures. Release: 2018.

Out of Bounds (wt)

Wild Pacific Media, Definition Films; distributor: K2 Communications; director: Caspar Mazzotti; producers: Nick Robinson, David Gross; executive producers: David Gross, Mark Krenzien, Mark Kresser. Cast: Torah Bright. Release: February 2019.

– August: filmed in Australia.

Secrets of the Universe

Stephen Low Company; distributor: K2 Communications; director: Stephen Low; DP: Mark Poirier; executive producer: K2 Communications. Release: April 2019.

Great Bear Rainforest (wt)

Spirit Bear Entertainment; distributor: MacGillivray Freeman Films; directors, producers, DPs, script: Ian McAllister, Jeff Turner; executive producers: Byron Horner, Kyle Washington. Release: spring 2019.

A Serengeti Story (wt)

Digital Crossing Productions; distributor: SK Films; director, DP: Michael Dalton-Smith; producers: Michael Dalton-Smith, Jonathan Barker; script: Michael Dalton-Smith, Wendy MacKeigan; executive producer: Jonathan Barker. Release: Spring 2019.

Superpower Dogs (wt)

Cosmic Picture; distributor: tba; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Daniel Ferguson, Dominic Cunningham-Reid; script: Daniel Ferguson; DP: Reed Smoot. Release: spring 2019.

First Steps

Statement Pictures, CNN Films; distributor: tba. 2D. Release: Summer 2019.

Ancient Caves (wt)

Oceanic Research Group; distributor: MacGillivray Freeman Film Distribution; director, DP: Jonathan Bird; producers: Jonathan Bird, Art Cohen; script:

Jonathan Bird, Art Cohen; score: Bruce Zimmerman; executive producer: Shaun MacGillivray. Cast: Dr. Gina Moseley, Dr. Larry Edwards, Brian Kakuk, Todd Kelly. 15/70 only. 2D. Release: 2019.

– Late 2017, early 2018: filming planned for France, Mexico, Bahamas.

Back From the Brink

Sean Casey Productions; distributor: tba; director, DP: Sean Casey; producers: Jen Casey, Sean Casey; script: Mose Richards. Release: 2019.

– October: filmed the Vaquita porpoise in the sea of Cortez.

Elephant

Wild Expectations, Ltd.; distributor: tba. Release: 2019.

Einstein's Incredible Universe (wt)

Cosmic Picture; distributor: tba; director: Daniel Ferguson; producers: Taran Davies, George Duffield, Daniel Ferguson; script: Daniel Ferguson, Mose Richards; DP: Reed Smoot. Release: fall 2020.

– August: filmed total solar eclipse from multiple locations in U.S. Northwest.

Return to Everest (wt)

MacGillivray Freeman Films; distributor: MacGillivray Freeman Films; director: Greg MacGillivray; producer: Shaun MacGillivray; script: Stephen Judson; DPs: Brad Ohlund, Michael Brown, Greg MacGillivray, Jack Tankard, Ron Goodman; score: Steve Wood. Release: 2020.



Filming with a 3D rig for Wild Pacific Media's Ancient Australia.

First Steps Statement Pictures, LLC Release Date: 7/20/2019 Format: 2D Length: 40 min. <p>Timed for release on the 50th anniversary of the first lunar landing, <i>First Steps</i> is a direct-cinema historical experience of the dramatic Apollo 11 mission. With the assistance of NASA, the National Archives, and a global team of researchers and archivists, the film uses never-before-seen footage from 1969 and tells the story entirely through archival materials, giving audiences a thrilling firsthand experience of humanity's first trip to another world. From the Emmy Award-winning filmmakers of <i>Dinosaur 13</i> and CNN Films, <i>First Steps</i> will be available Summer 2019.</p>	The Secrets of Gravity Softmachine Release Date: 10/1/2017 Format: 3D Length: 45 min. <p><i>The Secrets of Gravity</i> is about Limbradur, a 12-year-old boy fascinated by the stars, the universe, and the laws of nature. One night he sneaks into the Albert Einstein Museum, where he meets Albyx3, a small, clever, but rather quirky robot who knows all about Albert Einstein and his theories. Alby takes Limbradur on a magical journey of discovery through time and space, during which they not only uncover the secrets of gravity but also learn much about friendship and imagination. For Limbradur and Alby both have secrets of their own.</p>
Great Barrier Reef December Media Release Date: 2018 Format: 3D Length: 40 min. <p>Every year millions of visitors travel by way of fins, flippers, and feet to see one of the seven wonders of the natural world: the Great Barrier Reef - a living treasure trove of biodiversity. There is still so much to learn and knowledge is the key to understanding more about this living Eden. Today a new generation of reef guardians is committed to protecting this marine reserve, making a difference, and sharing its knowledge of this extraordinary ecosystem, the beating heart of the reef. Learn how this amazing sanctuary has endured for thousands of years and will continue to do so far into the future.</p>	Secrets of the Universe Stephen Low Company Release Date: 4/1/2019 Format: 3D Length: 40 min. <p>Breakthrough advancements in technology are enabling never-before-possible scientific experimentation. These fascinating machines, such as the \$13 billion Large Hadron Collider in Geneva, Switzerland, provide an unprecedented pathway to answers surrounding the nature of our universe. Thousands of scientists, with a diversity of backgrounds and expertise, journey from all over the world to labs like CERN (the host of the LHC) and Fermilab (new host of ICARUS and the highly-anticipated DUNE project)—now with a real hope of unlocking the secrets that have long eluded us: dark matter, antimatter, extra dimensions, and more. Join them as they push the boundaries of the possible, on the cusp of turning science fiction into science fact. Narrated by actor Simon Helberg.</p>
Great Bear Rainforest Spirit Bear Entertainment Release Date: 2018 Format: 3D Length: 40 min. <p>Filmmakers Ian McAllister and Jeff Turner and executive producers Kyle Washington and Byron Homer of Spirit Bear Entertainment are partnering with MacGillivray Freeman Films to distribute a beautiful giant-screen film about one of the rarest animals on Earth—the fabled all-white Spirit Bear. Shot exclusively for the giant screen, <i>Great Bear Rainforest</i> (working title) will offer a remarkable journey into one of the planet's most spectacular wildernesses—a land of wolves, grizzly bears, humpback whales, sea lions, sea otters, and others—as it explores the secret world of the Spirit Bear.</p>	A Serengeti Story Digital Crossing Productions Release Date: 3/31/2019 Format: 3D Length: 40 min. <p>The Serengeti is one of the world's most spectacular ecosystems. It's home to the biggest migration of mammals on earth. Two million wildebeest endure a treacherous year-long journey, culminating in the largest synchronized birth of mammals on the planet. Why they travel such long distances, and why they time their births together were among nature's greatest mysteries. Fifty years ago, scientist Tony Sinclair set out to answer those questions. <i>A Serengeti Story</i> recounts his incredible life's work. Sinclair and his fellow scientists discovered something much bigger and more complex than they ever imagined. Now, with climate changing and resources becoming scarcer, understanding how populations are regulated is even more important.</p>
Hidden Pacific Tandem Stills + Motion Release Date: 3/31/2018 Format: 3D Length: 40 min. <p>Directed by Ansel Adams Award-winning nature photographer Ian Shive, <i>Hidden Pacific</i> will bring the Pacific Ocean's protected and remote national wildlife refuge islands and marine national monuments to giant-screen cinemas around the world. The film captures the beauty of the ocean and these emerald islets, the conservation efforts to restore their ecosystems, and the diversity of life on both land and reef. <i>Hidden Pacific</i> will take audiences to these faraway, picturesque "Pearls of the Pacific" in ultra-high resolution, immersive, giant-screen formats.</p>	Snow Ouragan Films Release Date: 2018 Format: 3D Length: 40 min. <p>The northern hemisphere is preparing for winter and its customary blanket of snow. Late at night, Sigurd Haraldson crisscrosses the mountains of his Alpine home at the controls of his snowplough. On his radar screens, he tracks a snowstorm that is gaining ground in Northern Canada and about to make its way East. He hopes it's going to head his way. Everyone is waiting for the arrival of snow and everything it will bring. Beneath the stars in his snowplough in the Alps, Sigurd wonders about snow, its structure and what happens to it when it reaches the ground. But he also wonders how much longer the magical snow spectacle will last.</p>
In Saturn's Rings SV2 Studios Release Date: 5/4/2018 Format: 2D Length: 40 min. <p>Fly through space and explore the wonders of the universe as science meets art on the giant screen. Created from over one million real photographs from space missions and historical sources, all animated to full motion, <i>In Saturn's Rings</i> will take audiences on a journey from the Big Bang to the awe-inspiring rings of Saturn. The film showcases stunning, rarely seen, and newly processed images from humanity's space missions, including Cassini-Huygens, Apollo, Voyagers 1 and 2, Hubble, and many more. The result is a groundbreaking visual epic that is the closest experience to flying through space and time possible without a personal spacecraft. Set to powerful music and dense sound design, <i>In Saturn's Rings</i> appeals to the great human yearning to explore, to question, to discover.</p>	Star Wars: The Last Jedi LucasFilm Ltd. Release Date: dsf Format: 3D Length: 120 min. <p>Having taken her first steps into a larger world in <i>Star Wars: The Force Awakens</i> (2015), Rey continues her epic journey with Finn, Poe, and Luke Skywalker in the next chapter of the saga.</p>
Justice League Warner Bros. Release Date: 11/17/2017 Format: 2D Length: 120 min. <p>Fueled by his restored faith in humanity and inspired by Superman's selfless act, Bruce Wayne enlists the help of his newfound ally, Diana Prince, to face an even greater enemy. Together, Batman and Wonder Woman work quickly to find and recruit a team of metahumans to stand against this newly awakened threat. But despite the formation of this unprecedented league of heroes—Batman, Wonder Woman, Aquaman, Cyborg and The Flash—it may already be too late to save the planet from an assault of catastrophic proportions.</p>	The Story of Earth December Media Release Date: 2018 Format: 3D Length: 40 min. <p>This is the story of a remarkable planet, unlike any other yet found across deep space. Born from dying stars, it was sculpted by violent collisions in space. Yet, in an epic journey, this hostile ball of molten rock transformed itself into a nurturing environment. From it emerged forms of life, none of which have been found anywhere else in the universe. That planet is not millions of light years away, either: you are standing on it right now. It is Earth.</p>
Mountain Quest Stranger Than Fiction Films Release Date: 2017 Format: 3D Length: 40 min. <p>A lone climber, suspended hundreds of feet in the air, struggles to find the next finger hold, defining progress in inches. The dramatic visuals immerse us in a gripping contest of human determination versus the reality of gravity's potent grip. <i>Mountain Quest</i> explores the precarious relationship of humanity's quest to scale some of the world's highest places, while also revealing the scientific and technological advances that have enabled us to conquer these peaks, exposing the heartbeat of the human soul. The film will be narrated by Willem Dafoe and released December 2017.</p>	Touch the Stars Afterglow Studios Release Date: 1/31/2018 Format: 3D Length: 40 min. <p>In the summer of 1977, two space capsules were launched from Cape Canaveral, Florida. Equipped with an array of cameras and magnetometers, the twin <i>Voyagers'</i> primary mission was to explore the outer planets and moons of our solar system. This mission was to last 12 years and extend as far as Neptune. In 2012, <i>Voyager 1</i> crossed the boundary of interstellar space, thereby initiating the secondary mission: to deliver a greeting from the heart of planet Earth — a greeting made up of pictures, sounds, and music cut into the grooves of a golden phonograph record — to whomever (or whatever) may receive it.</p>
Oceans: The Blue Planet BBC Earth Release Date: 3/31/2018 Format: 3D Length: 40 min. <p><i>Oceans: The Blue Planet</i> is an extraordinary journey of discovery and wonder, transporting the audience to the deep, mysterious worlds of our oceans. Packed with drama, awe, and spectacle, we reveal untold stories of the ocean's most astonishing creatures in immersive 3D. The From the freezing shores of the Arctic to the balmy waters of the tropics, we share these extraordinary new discoveries. Using revolutionary underwater and on-board filming technology, we'll dive into the giant void of the big blue, journey with a deep-sea current, and witness scenes of wonder from the greatest fishery on earth. In stunning 3D, <i>Oceans: The Blue Planet</i> takes the audience to magical worlds and delivers a connection to the ocean like never before.</p>	Train Time Stephen Low Company Release Date: 4/30/2018 Format: 2D Length: 44 min. <p>On a stunning and kinetic rail journey across the North American continent, <i>Train Time</i> reveals the hidden inner workings of the modern railroad. The film will explore how, over the course of more than two centuries, the world's railroads have helped to shape modern nation states, propelling goods and commodities and enabling smoothly functioning economies. Combining stunning imagery and a people-oriented story line, the film will explore the science and engineering of railroading: how trains and locomotives are designed; how and where they are built; how they have evolved over the years; what makes them so inherently efficient; what the future holds; and more.</p>
Pandas Imax Corporation Release Date: 3/31/2018 Format: 3D Length: 40 min. <p>A naturalist in rural New Hampshire becomes the unlikely key to solving one of the most pressing issues in conservation—saving the Giant Panda. For twenty-five years, Ben Kilham quietly raised orphaned black bears and returned them to the forests of New England. But his life takes on greater meaning when Chinese scientists enlist his help to launch a bold new project preparing captive-bred panda cubs to leave their coddled world behind and set off on a wild adventure in the snowy mountains of Sichuan.</p>	Turtle Odyssey Definition Films Release Date: 2/28/2018 Format: 3D Length: 45 min. <p>We live in two worlds, one we call Earth, the other as alien as any distant planet. A planet where we could not breathe but where we could fly, where we would meet unbelievably strange creatures that could no more live on our world than we could live on theirs. And yet here on our blue planet these worlds co-exist. One creature must touch the edge of the other world, must, for its birth, life, and rebirth, cross the barrier. It is the sea turtle, an astounding voyager that can traverse thousands of kilometers of open ocean for 40 or 50 years, then, from half a world away, travel with mysterious precision back to the very beach where it was born, there to lay the eggs that are the foundation of the next generation.</p>

Films in Development at the 2017 GSCA Conference

<p>The 331 Days to V-E Day</p> <p>N3D Land Films Release Date: 5/20/2019 Format: 3D Length: 40 min.</p> <p>On June 6th, 1944, the Allied forces opened up a second front in France so that they could begin freeing Europe from German occupation and put an end to the Third Reich. Thus, in the West and the East, the gigantic vice formed by Allied forces began to clamp shut on Nazi Germany. However, it was only almost a year after the D-Day landings, after the price was paid in millions of civilian and military lives, that a ravaged Germany would capitulate without condition, on May 8th, 1945. From Normandy to the heart of Germany via Belgium and the Netherlands, Carantan, Operation Market Garden, Bastogne are some of the major battlefields that marked out the heroic course of the Allies towards Victory in Europe. <i>The 331 Days to V-E Day</i> brings to light, in a novel and immersive way, all the ins and outs of the 331 days that changed the world.</p>	<p>Out of Bounds</p> <p>K2 Communications Release Date: 2/28/2019 Format: 3D Length: 40 min.</p> <p>Follow Australian Olympic snowboarder Torah Bright as she heads from her home in the foothills of the Australian Alps, deep into Alaska's glaciated Chugach mountain range. Torah dedicated her life to conquering the mountain, and now she's working with her team to understand and protect these epic ecosystems from an ever-changing world. Standing over the ledge of a 2,000-foot vertical drop, we unravel the science behind the earth's most incredible mountain environments and ride these untamed peaks.</p>
<p>Asteroid Impact</p> <p>Imax Corporation Release Date: 2018 Format: 3D Length: 40 min.</p> <p><i>Asteroid Impact</i> will reveal the origins of asteroids and the effects of previous Earth impacts. Delve into the threat these celestial masses pose to our planet today, and examine how we monitor their trajectory in order to stay out of their deadly path. Through a tour of the solar system and a close look at the "city-buster" asteroid, Apophis, this new IMAX documentary will tell you everything about the massive space rocks that shape our universe through amazing and devastating collisions.</p>	<p>Phil's Pollinator Film</p> <p>Principal Large Format Release Date: 2019 Format: 3D Length: 40 min.</p> <p>Not all pollinators are insects. Tiny crustaceans pollinate turtle seagrasses of the Mexican Gulf and white-winged doves provide personal services to mighty Saguaro cacti in the Sonoran desert. Not all pollination is about food. The arctic circle's northern orchid could not exist without the loathed mosquito. But it is the honey bees, wild pollinators, and other insects that are most important to us. Between them they produce \$40 billion of products annually in the USA. Humans depend on pollinators for one in three mouthfuls of food; and those are the tasty ones! Fruit, nuts, most vegetables. But, why are honeybee colonies collapsing and other pollinators in decline? Well, let's find out! During one glorious North American year, all these vital pollinators evade their enemies as, on tireless legs or wings, they visit up to 2,000 flowers daily, foraging and pollinating as if their lives depend on it. Ours certainly do.</p>
<p>Colours of China</p> <p>Making Movies Release Date: 4/30/2019 Format: 3D Length: 37 min.</p> <p>Five colors resonate through every layer of traditional and modern Chinese life, representing emotional, physical, spiritual, and directional forces. In the centre is yellow, surrounded by blue for east, red for south, white for west, and black for the north. Guided by these profoundly influential colors, the audience embarks on a visual and cultural journey to discover spectacular landscapes, moods, seasons, and regions; unpacking the complex relationship between color and Chinese culture, landscapes, built environments, and the astonishing advances in the development and deployment of green technologies.</p>	<p>Planet Ocean</p> <p>Principal Large Format Release Date: 2020 Format: 3D Length: 40 min.</p> <p>Earth is not covered by "Seven Seas," as we once learned in school, but one single interconnected ocean. In <i>Planet Ocean</i> we will experience this world of water as if for the first time, through stunning giant-screen 3D imagery and a unique perspective—a breathtaking rollercoaster ride through the ever-streaming currents and upwellings from the abyss to the surface. A water molecule riding this vast ocean conveyor belt takes a thousand years to travel the entire world ocean and back. Along the way, we'll encounter spectacular wildlife in a liquid sky and meet the heroes who fight for ocean health with creative scientific solutions. <i>Planet Ocean</i> will be a cinematic thrill ride but will also show how our one ocean is crucial for our planet's health—a vast circulatory system and climate engine that supports all life on Earth, including our own—leaving audiences both enlightened and inspired.</p>
<p>Einstein's Incredible Universe</p> <p>Cosmic Picture Release Date: 2020 Format: 3D Length: 45 min.</p> <p>Today Albert Einstein is regarded as the most famous scientist of all time, his name shorthand for genius, yet few of us fully understand his discoveries and their impact on our lives. Now through a combination of stunning live-action cinematography and immersive CGI, audiences will experience first-hand the visceral "thought experiments" at the heart of Einstein's radical new vision of the universe. Along the way, we will come to appreciate how so many innovations we take for granted stem from his imagination and how his General Theory of Relativity remains the basis of nearly every current theory about how the cosmos works, from black holes and time travel to the recent discovery of gravitational waves.</p>	<p>Powered by the Wind</p> <p>Blue Sky AB Release Date: 9/30/2018 Format: 3D Length: 45 min.</p> <p>This new large-format film will focus on the Turn the Tide on Plastic team about to participate in the Volvo Ocean Race, 2017-2018. This race is often referred to as the Ocean's Everest. Dee Caffee will be leading a young, mixed crew, half men and women. They will race to win, but they also have a higher goal: to spread an important environment message. "This isn't a B2B or B2C campaign, it's relevant to everyone, and so it feels like I'm taking on a major responsibility. We've abused our planet, and it's key to drive conversation about the amount of plastic in our ocean. We're already talking about it, of course, but this campaign is all about pushing people into proactively doing something about it."</p>
<p>Feathered Dinosaurs</p> <p>Saint Thomas Productions Release Date: 2018 Format: 3D Length: 40 min.</p> <p>On the green slopes of giant volcanoes lives Microraptor. Not a bird, nor a normal dinosaur: with four wings, this small, feathered dinosaur glides between trees in search of lizards or insects to feed its young. Being tiny exposes it to various threats from its neighbors: on the ground, Sinosauropteryx—a squirrel version of Velociraptor—and the massive Yutyrannus—a sort of feathered T-Rex—roam in search of dinner. Highly exposed on the ground, Microraptor can only climb trees to escape. Its neighbors have other strategies: primitive mammals rely on dens to hide in and poisonous heel spurs to inflict deadly wounds; colored Caudipteryx—a peacock version of a small Velociraptor—or "Pyjama raptor"—another fluffy raptor—have to run through the maze of trees to confuse their predators. Every minute, Microraptor battles to survive: Darwinopterus pterosaurs attack through the canopy, winter brings snow, and volcanoes spew deadly clouds of ashes. Will Microraptor thrive long enough to give its chicks a chance to flee and venture out of their nest?</p>	<p>Superpower Dogs</p> <p>Cosmic Picture Release Date: 2019 Format: 3D Length: 40 min.</p> <p>The true story of a rookie puppy who discovers his superpowers with the help of the world's most extraordinary search and rescue dogs. From the Canadian Rockies to the Italian Riviera to Northern Kenya, join these charismatic canines as they brave earthquakes and avalanches, bring criminals to justice, and lift our spirits. Audiences will experience how dogs see, hear, and smell the world and discover how we are harnessing their remarkable superpowers to heal, inspire, and save lives. We will never look at our best friends the same way again!</p>
<p>Gravity 3D</p> <p>December Media Release Date: 2019 Format: 3D Length: 45 min.</p> <p>Gravity does much more than just connect us to our planet. Through the world of extreme sports we're going to place our trust in this, a fundamental law of science. As we leap off waterfalls, free fall from space, and jump over the Arc de Triomphe, we reveal how gravity drives the creation, structure, and movement of the entire universe. Strap yourself into your seat—you're about to experience some major Gs.</p>	<p>Venom 3D: The Bite That Cures</p> <p>December Media Release Date: 2019 Format: 3D Length: 45 min.</p> <p>The animal kingdom uses venom to hunt and defend itself. These deadly cocktails of toxins unleash multifaceted attacks on their victims, targeting the nervous system, paralyzing muscles, clotting blood, and breaking down cells, to name a few effects. But that is only part of the story. Medical science is discovering that the very same deadly toxins can be used to attack a myriad of debilitating and fatal diseases in humans. From the thrill of the chase to the world of advanced medical science, follow our team of venomologists as they risk their lives to save the lives of others.</p>
<p>Human Body</p> <p>BBC Earth Release Date: 2019 Format: 3D Length: 40 min.</p> <p>There is a story that unites everyone on earth, because of the one thing we all have in common, the most mind-blowing machine we know of in the Universe—the human body. This film is a fantastic voyage through the body to discover how we all achieve the complex balancing act of being alive. Using the latest breakthroughs in medical imaging, combined with state-of-the-art 3D photo-real animation, this is your body as you've never seen or understood it before. The latest science provides fascinating insight into the extraordinary world within us all. <i>Human Body</i> will take you to incredible places around world, sharing personal stories and events that individual people experience, to reveal the unseen and often unbelievable actions that go on inside us every day. This is a film is for anybody who has a body—for all of us.</p>	<p>Wild Wonders of China</p> <p>Blue Sky AB Release Date: 2020 Format: 3D Length: 45 min.</p> <p><i>Wild Wonders of China</i> is a Chinese-international project about showing China's amazing natural treasures to China's citizens and the world. The wild side of China, with wonderful wildlife and wild places that most people don't even know exist. Using the emotional power of great photography to inspire really wide audiences with the joy of the wild. Celebrating that nature conservation works—highlighting the many Chinese conservation success stories, the great initiatives and the people behind these, while at the same time showing concern for habitats and species. How are people to be expected to care for something they haven't ever seen, felt strongly for, or simply don't know about? We want the whole world to experience the stunning landscapes and splendid biodiversity of China today.</p>

Premiering This Month

Thor: Ragnarok

Produced and distributed by Walt Disney Pictures. Directed by Taika Waititi. Starring Chris Hemsworth, Benedict Cumberbatch, Cate Blanchett, Idris Elba, Anthony Hopkins, Tom Hiddleston, Mark Ruffalo, Sam Neill. 2D. DMR. Release: Nov. 3.

"Thor is imprisoned on the other side of the universe and finds himself in a race against time to get back to Asgard to stop Ragnarok, the destruction of his homeworld and the end of Asgardian civilization, at the hands of an all-powerful new threat, the ruthless Hela."

Justice League

Produced and distributed by Warner Bros. Pictures. Directed by Zack Snyder. Starring Amy Adams, Ben Affleck, Gal Gadot, Henry Cavill, Jeremy Irons, Diane Lane, Connie

Nielsen, J.K. Simmons, Jesse Eisenberg. DMR. 2D. Release: Nov. 17.

"Fueled by his restored faith in humanity and inspired by Superman's selfless act, Bruce Wayne enlists the help of his new-found ally, Diana Prince, to face an even greater enemy. Together, Batman and Wonder Woman work quickly to find and

recruit a team of metahumans to stand against this newly awakened threat. But despite the formation of this unprecedented league of heroes — Batman, Wonder Woman, Aquaman, Cyborg and The Flash — it may already be too late to save the planet from an assault of catastrophic proportions."



Justice League

Warner Bros. Pictures

(from **SHORTS** on page 24)

of the fans, the exercise machines, the crackly ghost sound of the radio. I wanted the audience to hear the unique sounds of space."

In addition to the 26 undergraduates enrolled in the 16-week course, other USC students filled the Los Angeles campus' 50-seat **Michelle and Kevin Douglas IMAX Theatre**, where Virts showed clips and stills from *A Beautiful Planet*. **Canon USA** provided course instructor **Matthew Scott** with two digital cameras identical to the ones Virts used in space — a C500 4K camera, and a 1DC DSLR — for the students to examine.

This semester marks the second time the two-credit course — the only one on GS filmmaking offered anywhere — has been held. The first was last spring. Although it will not be run next semester, it will be on the schedule for both semesters of the 2018-2019 school year.

USC's IMAX theater, donated and named for the Imax board member who is the largest private holder of Imax shares,

opened in 2014 and is the only one in the world located in a college or university. It has a 26x40-foot (8x14-meter) screen and the IMAX xenon digital projection system.

4D to replace IMAX in Norwalk

As we have reported previously (see *The Biz*, Oct.-Nov. 2016), the IMAX theater in Connecticut's **Maritime Aquarium at Norwalk** will be demolished to make way for the replacement to a 120-year-old railway bridge that literally passes over the museum building. The aquarium is now seeking permission to construct a new building that would house a 4D digital theater, among other facilities, that would make up for the loss of revenue the closing of the IMAX theater would cause.

The 365-seat IMAX theater opened in 1998 with an IMAX GT 15/70 projector. The new theater would be much smaller, with only 178 seats.

According to local press reports, construction on the bridge is set to begin in early 2019, at which time the aquarium will lose the IMAX theater and about

25,000 square feet (2,300 square meters) of exhibit space.

Spokane IMAX to be demolished

The **Riverfront Park IMAX Theatre** in Spokane, WA, will be demolished this month, along with other buildings, as part of a large-scale renovation of the municipal park that was the site of Expo '74, the 1974 world's fair that attracted over five million people. The Expo included a temporary IMAX theater that closed with the fair after six months; four years later the seventh permanent IMAX theater was built on a different site in the park.

That theater, still equipped with its original 15/70 film projector, struggled to compete with a multiplex IMAX theater that opened in 2009, 1,300 feet (400 meters) away. Unable to obtain popular Hollywood films, and lacking the finances to upgrade to digital, the theater operated in the red for several years, and switched to operating only six months out of the year starting in 2013. It closed in September 2016.

Bookings: November 2017 by Film

474 bookings of 82 films in 157 theaters

These listings do not include Hollywood films shown in multiplex IMAX theaters. Those films are listed when they are shown in non-multiplex theaters, and conversely, non-Hollywood giant-screen films showing on multiplex IMAX screens are also listed, when possible.

Listings shown in **bold face** below are new or updated listings. The rest are unchanged from the previous issue.

The data on the following pages are *not* warranted to be comprehensive or accurate in every detail, despite our best efforts to make them so. They have been compiled from theater surveys, distributors, the Web, and other sources.

We will make every effort to improve the thoroughness, and accuracy of these data. If your theater or film

is not shown here, please get in touch with us to update our listings.

Where a date is not shown, it means that no date was provided by the source or, in the case of a closing date, that no date has been set, or that the run is indefinite.

The key to film abbreviations is on page 21.

Film	Theater	Open	Close	Film	Theater	Open	Close	Film	Theater	Open	Close
ACGOTS	Alamogordo	7/1/17	12/31/17	DIA	Portland OMSI ET	11/10/14	3/1/18	DSC	Toronto OSC	2/17/17	8/16/18
	Columbus GA NIM	5/26/17	6/17/18		Raleigh	5/23/14	2/1/18		Vancouver TWS	3/4/17	2/16/18
	Corpus Christi Lex	6/17/16			Seattle PSC 2	3/29/14	6/30/19		Victoria DCI	3/17/17	3/16/18
	Dayton	6/17/16	5/28/18		Sudbury	5/30/16	6/30/18		Washington NASM	2/17/17	2/16/20
	Hastings	6/8/17	6/7/18		Vancouver TWS	11/17/15	11/12/17		Dearborn THF	3/25/16	1/17/18
	Hutchinson	5/29/17	11/28/17		Washington NASM	5/23/17	5/22/19		Peoria RM	11/17/16	11/16/17
	Memphis Pink	5/7/16	6/22/18		Harrisburg	1/1/16	12/31/18		Victoria DCI	2/3/17	3/2/18
	Pensacola NAM	5/26/17	6/30/18		Des Moines	9/1/17	8/30/18		Hastings	2/1/17	1/31/18
	Salt Lake City Clark	6/16/17	6/15/18		Galveston	1/1/17	11/1/17		Hartberg		12/31/18
	Washington NASM	5/26/17	5/28/18		Stockholm	6/1/17	6/1/18		Columbus COSI	9/1/17	9/1/18
AIWC	Chandigarh	9/5/14	3/5/18	DinoAliv	Fort Worth	5/28/16	12/31/17	EarthFli	Davenport Put	10/15/16	2/14/18
	Shijiazhuang HST	1/1/17	1/1/19		Speyer Dome		12/31/17		Denver MNS	1/13/17	
	Atlanta FMNH	5/20/17	11/19/17		Atlanta FMNH	2/17/17	2/16/18		Detroit MSC	5/22/17	5/21/18
	Boston MOS	4/14/07	6/30/18		Austin TSHM	10/1/17	3/31/18		Edmonton TWS	6/2/17	6/1/18
	Boston NEA	4/24/17	4/23/18		Baltimore MSC	2/17/17	2/16/18		Erie	3/1/15	3/14/18
	Charlotte DP	5/1/17	4/30/18		Baton Rouge LASM6	6/30/17	6/29/18		Indianapolis Imx	2/24/17	
	Chattanooga TA	5/26/17	5/25/18		Birmingham AL	2/17/17	2/16/18		Kuwait SCK	1/1/17	4/30/18
	Chicago MSI	5/26/17	5/25/18		Boston MOS	10/6/17	10/5/18		Lubbock SS	3/4/17	2/23/18
	Copenhagen TBP	10/12/17	3/11/18		Chantilly	2/17/17	2/16/20		Memphis Pink	3/24/17	5/28/18
	Fort Lauderdale	4/28/17	4/27/18		Charlotte DP	8/26/17	9/1/18		Phoenix ASC	8/18/17	11/23/17
Alaska	Galveston	5/27/17	11/10/17	DreamBig	Chattanooga TA	2/17/17	2/16/18	Everest	Sacramento Imx	2/24/17	
	Hastings	2/8/17	12/12/18		Chicago MSI	2/17/17	2/16/18		Saint Augustine	10/15/16	1/1/18
	Houston MNS	4/21/17	12/31/17		Cleveland	3/17/17	2/16/18		Saint Louis SC	1/13/17	1/12/18
	Indianapolis Imx	9/8/17	6/7/18		Columbus COSI	2/17/17	2/16/18		Sioux Falls	2/1/17	2/3/18
	Los Angeles CSC	10/11/17	10/10/18		Davenport Put	2/24/17	2/23/18		Tallahassee CLC	5/19/17	5/1/18
	Lubbock SS	6/2/17	5/30/18		Dayton	5/26/17	5/25/18		Chantilly	12/10/04	
	Melbourne MV	9/15/17	9/15/18		Dearborn THF	2/17/17	2/16/18		Corpus Christi Lex	5/12/12	
	Mexico City Pap	11/17/17	11/16/18		Denver MNS	2/17/17	2/16/18		Dayton	3/1/13	
	Milwaukee	10/1/17	6/30/18		Des Moines	2/24/17	2/23/18		Huntsville USSRC	7/1/13	
	Montreal SC	10/6/17	3/30/18		Detroit MSC	2/17/17	2/16/18		McMinnville	3/23/12	
AmazAdve	Norwalk MA	7/1/17	6/30/18	FightPil	Edmonton TWS	3/25/17	3/24/18	FlyMons	Philadelphia FI	11/25/16	
	Pittsburgh CSC	11/17/17	6/30/18		Fort Lauderdale	2/17/17	2/16/18		Copenhagen TBP	1/1/16	12/31/17
	Sacramento Imx	9/8/17	3/7/18		Fort Worth	2/17/17	2/16/18		Hague	2/18/17	2/18/18
	Saint Augustine	4/28/17	4/30/18		Galveston	9/2/17	8/25/18		Columbus COSI	8/1/14	3/30/18
	Saint Louis SC	9/22/17	4/21/18		Grand Rapids Cel	7/15/17	7/14/18		Davenport Put	5/18/16	5/17/18
	Salt Lake City Clark	4/14/17	4/13/18		Hampton VASC	2/17/17	2/16/18		Harrisburg	10/15/15	11/2/17
	San Jose Tech	5/6/17	4/30/18		Harrisburg	2/18/17	2/17/18		Louisville KSC	6/18/15	7/2/18
	Seattle PSC 2	11/10/17			Hastings	10/19/17	10/18/18		Apple Valley Imx	6/5/15	1/12/18
	Sudbury	10/6/17	10/5/18		Houston MNS	2/17/17	2/16/18		Austin TSHM	10/1/16	12/31/18
	Toronto OSC	10/6/17	9/30/18		Huntsville USSRC	2/17/17	2/16/18		Columbus COSI	9/1/14	6/30/18
AMMM	Victoria DCI	4/14/17	6/30/18	FMTTM	Hutchinson	2/17/17	2/16/18		Davenport Put	2/15/13	6/30/18
	Virginia Beach AMSC5/27/17	6/30/18			Jersey City	2/17/17	8/16/18		Dearborn THF	2/8/17	12/31/17
	Hartberg	3/25/15	12/31/18		Kansas City Sci	5/26/17	5/25/18		Edmonton TWS	12/26/13	6/30/18
	London BFI Ode	9/1/17	8/30/18		Kuwait SCK	6/25/17	12/25/17		Erie	6/1/17	11/30/17
	Melbourne MV	7/11/16			London SM	9/4/17	8/31/18		Gatineau	10/5/12	6/30/18
	Saint Augustine	8/19/17	8/18/18		Los Angeles CSC	2/17/17	2/11/18		Harrisburg	2/2/14	6/30/18
	Virginia Beach AMSC5/27/17	9/4/18			Louisville KSC	2/17/17	2/16/18		Hastings	3/17/13	6/30/18
	Athens Eug	3/30/17	9/30/18		Mexico City Pap	3/15/17	3/14/18		Houston MNS	10/4/12	1/31/18
	Columbus COSI	6/1/17	5/1/18		Milwaukee	7/10/17	7/9/18		Louisville KSC	9/30/12	6/30/18
	Garden City	5/19/17	6/18/18		Mobile	9/23/17	9/22/18		Peoria RM	4/1/16	6/30/18
AsterME	Salt Lake City Clark	4/29/16	12/31/17	FON	Moscow Kin	9/10/17	9/9/18		Phoenix ASC	10/7/16	8/18/18
	Calgary TS	9/28/15	9/28/18		Norwalk MA	2/17/17	2/16/18		Port of Spain	10/6/17	10/5/18
	Columbus COSI	9/15/14	6/30/18		Orlando SC	2/17/17	8/16/18		Portland OMSI ET	1/7/14	6/30/18
	Davenport Put	10/1/12	4/28/18		Pensacola NAM	3/1/17	6/30/18		Raleigh	10/19/17	6/30/18
	Lodz CC	8/24/15	8/24/18		Peoria RM	2/18/17	2/17/18		Richmond SMV	5/1/13	6/30/18
	London SM	10/22/16	7/31/18		Phoenix ASC	2/17/17	2/16/18		Sacramento Imx	8/13/13	6/30/18
	San Diego RHF	7/1/14	6/30/18		Portland OMSI ET	2/17/17	2/16/18		Saint Augustine	1/18/13	12/31/17
	Vancouver TWS	3/11/06	6/30/18		Raleigh	2/17/17	2/16/18		Salt Lake City Clark2/8/13	6/30/18	
	Denver MNS	9/1/17	8/30/18		Regina	2/17/17	2/16/18		San Diego RHF	10/12/12	6/30/18
	Kurashiki	7/16/17	4/18/18		Richmond SMV	2/18/17	2/17/18		Seattle PSC 2		6/30/18
ConqOTS	Phoenix ASC	11/3/17	3/31/18	G3DNW	Saint Augustine	2/17/17	2/16/18	ExtrWeat	Tallahassee CLC	1/18/13	6/30/18
	Victoria DCI	8/18/17	2/17/18		Saint Louis SC	2/17/17	2/16/18		Vantaa	5/9/17	1/15/18
	Garden City	11/1/17	12/31/18		Salt Lake City Clark	8/25/17	8/24/18		Victoria DCI	4/5/13	6/30/18
	Hartberg	3/25/15	12/31/18		San Diego RHF	3/10/17	3/9/18		Al Khobar	8/20/15	12/20/17
	Nanchang JTSC		12/31/17		San Jose Tech	2/17/17	2/16/18		Albuquerque NMMNH3/18/17		3/17/18
	Dearborn THF	2/27/17	1/8/18		Seattle PSC 2	2/17/17	2/16/18		Berlin CS	4/20/14	10/19/18
	Des Moines	12/9/16	6/30/18		Sioux Falls	6/2/17	6/2/18		Boston NEA	2/15/16	3/31/18
	Gatineau	9/1/15	3/30/18		Sudbury	2/17/17	2/16/18		Davenport Put	10/17/14	10/20/18
	Hague	7/1/17	6/30/18		Tallahassee CLC	2/17/17	2/16/18		Hastings	2/10/15	6/10/18
	Hastings	5/15/15	12/31/18		Thessaloniki	10/28/17	10/27/18		Houston MNS	2/15/14	5/31/18

Film	Theater	Open	Close	Film	Theater	Open	Close	Film	Theater	Open	Close
GC GCA GlobSoun	Katowice CC	6/18/14	9/19/18	JTTSP	Chattanooga TA	1/6/17	1/6/18	Ozarks Penguins	Lucerne	3/17/16	4/30/18
	Krakow CC	6/18/14	9/19/18		Chattanooga TA	5/26/17	5/31/18		Lucknow	2/6/17	12/31/17
	Lodz CC	6/18/14	9/19/18		Columbus COSI	5/24/17	12/31/17		Montreal SC	2/20/17	2/19/18
	Louisville KSC	6/18/15	6/30/18		Dayton	3/6/15	12/31/17		Mumbai NSC	8/4/17	2/3/18
	Melbourne MV	4/11/16	4/10/18		Hampton VASC	2/21/15	2/20/18		Nanjing YSTC	8/25/17	8/24/18
	Moscow Kin	10/6/14	8/31/18		Huntsville USSRC	2/13/15	3/21/18		Norwalk MA	5/27/16	12/31/17
	Orlando SC	7/5/14	1/4/18		Hutchinson	2/20/15	7/2/18		Nuremberg	3/3/16	12/31/17
	Poznan CC	6/18/14	9/19/18		KSC 1	2/27/15			Paris Geo	4/3/17	12/31/17
	Prague CC	5/22/14	9/19/18		Louisville KSC	4/3/15	6/30/18		Portland OMSI ET	2/12/16	12/31/17
	San Diego NHM	5/1/17	1/30/18		Lucerne	11/26/16	11/26/17		Raleigh	2/27/16	12/31/17
	Victoria DCI	9/4/15	6/30/18		Peoria RM	6/11/16	12/31/17		Richmond SMV	4/10/16	4/30/18
	Virginia Beach AMSC	5/28/16	5/29/18		Portland OMSI ET	3/20/15	3/21/18		San Diego RHF	3/18/16	12/31/17
	Grand Canyon DCI	11/1/99	12/17		Raleigh	6/16/17	6/15/18		San Jose Tech	2/12/16	7/31/18
	Richmond SMV	6/1/16	7/3/18		Salt Lake City Clark	5/15/15	5/31/18		Shanghai 3D STM	12/1/16	12/17/17
	Charlotte DP	11/1/17	11/1/19	LivingSe LOF MA	Valencia Spn	8/1/17	5/1/18	PTJH Rescue RME	Sinsheim	3/4/16	12/31/17
Gruffalo GruffChi GWS	Des Moines	10/1/16	10/1/18		Washington NASM	3/6/15			Sudbury	2/12/16	6/30/18
	Edmonton TWS	10/1/16	10/1/18		Birmingham AL	6/1/17	2/15/18		Vancouver TWS	2/12/16	6/30/18
	Mobile	10/18/17	10/1/18		Copenhagen TBP	6/15/17	12/15/17		Branson	9/93	12/17
	Vancouver TWS	10/1/16	10/1/18		Fort Worth	9/2/17	1/31/18		Al Khobar	6/21/17	6/20/18
	Saint Augustine	1/1/15	12/31/17		Louisville KSC	6/30/17	6/29/18		Bogota Mal	6/17/17	6/16/18
	Saint Augustine	2/1/15	12/31/17		Monterrey Pap	6/10/06	12/31/17		Houston MNS	6/3/17	12/31/17
	Atlantic City	5/25/17	5/31/18		Parker	6/3/17	12/1/17		Milwaukee	10/23/17	6/20/19
	Boston NEA	5/31/13	4/30/18		Phoenix ASC	6/16/17	6/15/18		Cathedral City	5/1/17	4/30/18
	Gatineau	10/7/16	6/30/18		Saint Paul SMM	5/5/17	6/1/18		McMinnville	6/1/12	
	New Orleans	12/26/16	12/31/17		Speyer Dome	5/25/17	5/24/18		Columbus COSI	7/10/07	6/30/18
	Omaha Zoo	6/1/17	5/31/18		Stockholm		1/1/18		Dearborn THF		9/1/18
	Regina	6/1/17	5/31/18		Leon Exp	6/1/17	11/30/17		Gatineau	5/6/13	
	San Simeon DCI	8/17/96		Kenya L&C	Baton Rouge LASM	11/3/15	11/2/18		Lucerne		9/1/18
	Athens Eug	9/1/17	12/31/17		Columbus GA NIM		2/7/18		Quebec Cpx	7/14/17	7/14/18
	Davenport Put	10/1/17	10/31/18		Harrisburg	11/7/16	11/3/17		Saint Paul SMM	10/13/17	3/1/18
HCBTD HidUniv	Glasgow		2/28/18		Raleigh	1/1/15	12/31/17		Seattle PSC 2		9/1/18
	Valencia Spn		12/31/17		Sacramento Imx	7/1/15	12/31/17		Toronto OSC		9/1/18
	New Orleans		12/31/17		Seattle PSC 2	9/5/17	2/8/18		Vancouver TWS		9/1/18
	Hague	1/11/11	12/31/17		Dearborn THF	9/4/15	1/17/18		Victoria DCI		9/1/18
	Stockholm	1/1/12	12/31/17		Hutchinson	5/1/15	6/18	RobotsNG	Dearborn THF	3/25/16	1/17/18
	Vancouver TWS	7/1/16	6/30/18		London BFI Ode	10/16/15			Guayaquil	4/1/17	3/31/18
	Baltimore MSC	7/1/15	12/31/17		Hartberg	10/1/13	12/31/18		Hampton VASC	6/20/15	6/19/18
	Kuwait SCK	7/6/16	12/31/17		McMinnville	3/23/12			London SM	5/23/15	2/28/18
	Lucerne	10/6/16	4/6/18		Houston MNS	11/20/17	2/12/18		Pensacola NAM	4/15/17	
	Mexico City PAP	11/16/16	11/15/17		Kagoshima	7/1/17	9/30/18		Philadelphia FI	10/1/16	
	Nuremberg		12/31/17		Kaohsiung NSTM	7/1/17	12/31/17		Singapore SC	5/1/17	4/30/18
	Paris Geo	7/7/15	12/31/17		Melbourne MV	1/1/17	1/1/18		Sioux Falls	3/4/16	
	Richmond SMV	3/14/15	12/31/17		Melbourne MV	1/30/17	1/29/18		Victoria DCI	2/3/17	
	Bradford	9/17/17	4/20/18		Ota Sanbei	7/14/17	11/26/17		Saint Augustine	10/3/15	12/31/17
	Chattanooga TA	9/29/17	11/30/17		Tallahassee CLC	7/14/17	7/13/18		Davenport Put	4/27/16	4/26/18
	Copenhagen TBP	2/1/17	1/28/18		Tokyo TSC	3/18/17	3/17/18		Valencia Spn	7/1/16	12/31/17
	Guayaquil	4/26/17	4/25/18	MOC	Victoria DCI	11/24/17	5/23/18		Atlanta FMNH	10/7/16	12/8/17
Hurrican	Hampton VASC	6/15/17	6/14/18		Columbus COSI	4/1/17	3/31/18		Copenhagen TBP	2/9/17	2/8/18
	Los Angeles CSC	10/10/17	4/10/18		Edmonton TWS	1/27/17	1/31/18		Melbourne MV	3/16/17	3/22/18
	Lucerne	3/16/17	6/15/18		Hague	5/16/17	12/31/17		Seattle PSC 2	9/5/17	9/4/18
	McMinnville	3/1/17	8/31/18		London BFI Ode	1/20/17	1/31/18		Taichung NMNS	7/1/17	6/30/18
	Pensacola NAM	3/13/17	3/12/18		Peoria RM	6/1/17	5/31/18		Victoria DCI	9/22/17	9/21/18
	Albuquerque NMNH	12/17/16	1/1/18		Pensacola NAM	11/8/96		SpaceNex	Calgary TS	1/1/17	12/31/18
	Atlanta FMNH	9/30/17	9/30/18		Speyer Dome		12/31/17		Columbus GA NIM	11/25/16	12/31/17
	Cleveland	4/14/17	4/30/18		Cairo EMA	12/15/15	12/14/17		Hangzhou LCSTM	7/1/17	6/30/18
	Denver MNS	6/1/17	5/31/18		Columbus COSI	11/19/14	3/30/18		Hutchinson	9/8/17	3/31/18
	Houston MNS	9/15/17	9/30/18		Dearborn THF	3/25/16	1/17/18		Lehi	6/30/17	6/30/18
	Lehi	9/29/17	9/30/18		Gatineau	1/15/16	6/30/18		Branson	7/19/17	7/19/18
	Montreal SC	6/23/17	6/30/18		Hague	10/1/15	12/17		Atlanta FMNH	9/30/17	9/30/18
	Salt Lake City Clark	2/17/17	2/17/18		Melbourne MV	3/24/14	12/31/17		Gatineau	12/23/16	12/31/17
	Sioux Falls	12/22/16	6/30/18		Peoria RM	1/17/15	3/30/18		Las Palmas	5/30/16	5/30/18
	Chattanooga TA	3/27/15	3/27/18	Mummies	Singapore SC	6/13/16	12/31/17		Poitiers Imax	4/1/16	4/30/19
	Columbus COSI	2/11/15	12/12/17		Guayaquil	4/23/07	2/28/18		Victoria DCI	12/2/16	12/2/17
	Columbus GA NIM	10/18/13	2/7/18		Kansas City Sci	6/20/17	6/20/18		Rochester MSC	7/1/16	6/30/18
	Edmonton TWS	12/26/13	1/31/18		Saint Louis SC	5/27/17	1/7/18		Washington NASM	3/7/16	12/31/17
	Louisville KSC	1/20/14	7/2/18		New Delhi ICC			TOTIA TTA	Atlanta FMNH	6/15/17	6/30/18
	McMinnville	9/27/13	2/28/18		Niagara Can DCI	7/1/86			Glasgow	4/1/15	4/30/18
	Raleigh	2/21/14	2/28/18		Niagara NY DCI	5/1/07			Hague	10/10/17	4/19/18
	Speyer Dome	12/12/13	12/11/17		Alamogordo	3/24/17	3/23/18		Moscow Kin	1/11/16	12/31/17
	Hague	7/4/17	7/4/18		Branson	3/18/16	12/31/17		Seattle PSC 2	1/20/17	12/31/17
	Nanchang JTSC	11/10/16	11/10/17		Carnival Vista	11/4/16	12/31/17		Tijuana	3/24/17	3/23/18
	Dearborn THF	2/27/17	1/8/18		Chandigarh	9/5/16	1/1/18		Katoomba	6/1/97	
	Edmonton TWS	5/20/16	12/31/17		Charleston CCAS	10/27/16	12/31/17		Austin TSHM	2/2/17	2/28/18
	Edmonton TWS	11/15/16	12/31/17		Chongqing STM	3/9/17	3/8/18		Chattanooga TA	11/16/16	11/30/17
	Hong Kong SM	9/1/17	2/28/18		Cleveland	7/1/17	6/30/18		Davenport Put	8/20/17	9/30/18
	Orlando SC	7/1/17	6/30/18		Columbus GA NIM	4/1/16	3/31/18		Lucerne	9/21/17	9/30/18
	Philadelphia FI	6/16/17	12/31/17		Des Moines	2/12/16	12/31/17		Peoria RM	8/10/17	8/30/18
	Poitiers Solido	2/1/16	12/31/17		Dongguan STM	1/25/17	1/24/18		Richmond SMV	2/1/17	
	Port of Spain	2/7/17	2/7/18		Edmonton TWS	2/12/16	6/20/18		Sioux Falls	8/1/17	8/30/18
JIAC JMCSO	Portland OMSI ET	3/1/17	2/28/18	ND Niagara NPA	Guangzhou GSC	7/27/17	7/26/18		Tallahassee CLC	5/15/16	6/30/18
	Shanghai 3D STM	12/31/16	12/31/17		Hague	2/16/16	12/31/17		Kuwait SCK	9/1/17	8/31/18
	Shenyang LSTM	11/1/16	11/1/17		Hampton VASC	4/29/16	4/28/18		Vancouver TWS	1/1/17	1/31/18
	Valencia Spn	4/1/17	3/31/18		Harbin STM	1/1/17	12/31/17		Edmonton TWS	5/1/15	5/31/18
	Edmonton TWS	12/26/13	6/30/18		Harrisburg	7/1/16	6/30/18		Harrisburg	6/1/17	6/30/18
	London BFI Ode		1/31/18		Keelung NMMST	7/1/17	6/30/18		Memphis Pink	5/21/15	5/31/18
	Port of Spain	10/6/17	10/5/18		Lehi	3/24/17	3/2/18		Orlando SC	4/1/17	3/31/18
	Athens Eug	11/29/17	12/31/18		London BFI Ode	2/12/16	2/11/18		Saint Augustine	1/9/17	1/31/18
JTM											
JTS											

Film	Theater	Open	Close	Film	Theater	Open	Close	Film	Theater	Open	Close
Yell	Valencia Spn	7/1/16	7/1/18								
	Victoria DCI	5/1/17	4/30/18								
	Yellowstone	5/1/14	12/31/17								

November 2017 by Theater

Theater	Film	Open	Close	Theater	Film	Open	Close	Theater	Film	Open	Close
Al Khobar	G3DNW	8/20/15	12/20/17	Columbus GA NIM	FON	8/1/14	3/30/18	Fort Worth	Dolphins	5/28/16	12/31/17
Alamogordo	Penguins	6/21/17	6/20/18		FOTB	9/1/14	6/30/18		DreamBig	2/17/17	2/16/18
	ACGOTS	7/1/17	12/31/17		Jerusale	2/11/15	12/12/17		JTTSP	9/2/17	1/31/18
Albuquerque NMMNH	NPA	3/24/17	3/23/18		JTS	5/24/17	12/31/17	Galveston	AmazAdve	5/27/17	11/10/17
	G3DNW		3/18/17		MOC	4/1/17	3/31/18		DinoAliv	1/1/17	11/1/17
Apple Valley Imx	3/17/18			Copenhagen TBP	MOTUW	11/19/14	3/30/18	Gatineau	DreamBig	9/2/17	8/25/18
	IncrPred	12/17/16	1/1/18		RME	7/10/07	6/30/18		AsterME	5/19/17	6/18/18
	FOTB	6/5/15	1/12/18		ACGOTS	5/26/17	6/17/18		CRA	11/1/17	12/31/18
	AsterME	3/30/17	9/30/18		Jerusale	10/18/13	2/7/18		D-Day	9/1/15	3/30/18
Athens Eug	HidUniv	9/1/17	12/31/17		L&C		2/7/18	Glasgow	FOTB	10/5/12	6/30/18
	JTS	11/29/17	12/31/18		NPA	4/1/16	3/31/18		GWS	10/7/16	6/30/18
Atlanta FMNH	AmazAdve	5/20/17	11/19/17		SpaceNex	11/25/16	12/31/17		MOTUW	1/15/16	6/30/18
	DreamBig	2/17/17	2/16/18		AmazAdve	10/12/17	3/11/18		RME	5/6/13	
	IncrPred	9/30/17	9/30/18	Corpus Christi Lex	FMTTM	1/1/16	12/31/17	Grand Canyon DCI	TinyGian	12/23/16	12/31/17
	SFLIS	10/7/16	12/8/17		Hurrican	2/1/17	1/28/18		HidUniv		2/28/18
Atlantic City	TinyGian	9/30/17	9/30/18		JTTSP	6/15/17	12/15/17		TTA	4/1/15	4/30/18
	TOTIA	6/15/17	6/30/18		SFLIS	2/9/17	2/8/18		GC	11/1/99	12/17
Austin TSHM	GWS	5/25/17	5/31/18		ACGOTS	6/17/16		Guangzhou GSC	DreamBig	7/15/17	7/14/18
	DreamBig	10/1/17	3/31/18	Davenport Put	FightPil	5/12/12			NPA	7/27/17	7/26/18
	FOTB	10/1/16	12/31/18		Bugs	10/1/12	4/28/18		Hurrican	4/26/17	4/25/18
	WildAfri	2/2/17	2/28/18		DreamBig	2/24/17	2/23/18	Hague	Mummies	4/23/07	2/28/18
Baltimore MSC	DreamBig	2/17/17	2/16/18	Dayton	ExtrWeat	10/15/16	2/14/18		RobotsNG	4/1/17	3/31/18
	HumpbWha	7/1/15	12/31/17		FON	5/18/16	5/17/18		D-Day	7/1/17	6/30/18
Baton Rouge LASM	DreamBig	6/30/17	6/29/18		FOTB	2/15/13	6/30/18		FMTTM	2/18/17	2/18/18
	L&C	11/3/15	11/2/18		G3DNW	10/17/14	10/20/18	Hampton VASC	HumanBod	1/11/11	12/31/17
Berlin CS	G3DNW	4/20/14	10/19/18		HidUniv	10/1/17	10/31/18		JAC	7/4/17	7/4/18
	DreamBig	2/17/17	2/16/18	Dearborn THF	SeaMonst	4/27/16	4/26/18		MOC	5/16/17	12/31/17
Birmingham AL	JTTSP	6/1/17	2/15/18		WildAfri	8/20/17	9/30/18		MOTUW	10/1/15	12/17
	Penguins	6/17/17	6/16/18		ACGOTS	6/17/16	5/28/18		NPA	2/16/16	12/31/17
Bogota Mal	AmazAdve	4/14/07	6/30/18	Denver MNS	DreamBig	5/26/17	5/25/18		TTA	10/10/17	4/19/18
	DreamBig	10/6/17	10/5/18		FightPil	3/1/13		Hangzhou LCSTM	DreamBig	2/17/17	2/16/18
Boston MOS	AmazAdve	4/24/17	4/23/18		JTS	3/6/15	12/31/17		Hurrican	6/15/17	6/14/18
	G3DNW	2/15/16	3/31/18		D-Day	2/27/17	1/8/18		JTS	2/21/15	2/20/18
Boston NEA	GWS	5/31/13	4/30/18		DreamBig	2/17/17	2/16/18		NPA	4/29/16	4/28/18
	Hurrican	9/17/17	4/20/18	Des Moines	DSC	3/25/16	1/17/18	Harrisburg	RobotsNG	6/20/15	6/19/18
Bradford	NPA	3/18/16	12/31/17		FOTB	2/8/17	12/31/17		SpaceNex	7/1/17	6/30/18
	Ozarks	9/93	12/17		JMCOS	2/27/17	1/8/18		NPA	1/1/17	12/31/17
Branson	TA	7/19/17	7/19/18		LITAOA	9/4/15	1/17/18		DIA	1/1/16	12/31/18
	MOTN	12/15/15	12/14/17	Detroit MSC	MOTUW	3/25/16	1/17/18		DreamBig	2/18/17	2/17/18
Cairo EMA	Bugs	9/28/15	9/28/18		RME		9/1/18	Hartberg	FON	10/15/15	11/2/17
	SpaceNex	1/1/17	12/31/18		RobotsNG	3/25/16	1/17/18		FOTB	2/2/14	6/30/18
Carnival Vista	NPA	11/4/16	12/31/17		ConqOTS	9/1/17	8/30/18		L&C	11/7/16	11/3/17
	PTJH	5/1/17	4/30/18		DreamBig	2/17/17	2/16/18		NPA	7/1/16	6/30/18
Cathedral City	AIWC	9/5/14	3/5/18	Dongguan STM	ExtrWeat	1/13/17			WWDDPP3D	6/1/17	6/30/18
	NPA	9/5/16	1/1/18		IncrPred	6/1/17	5/31/18	Houston MNS	Amazon	3/25/15	12/31/18
Chandigarh	DreamBig	2/17/17	2/16/20		D-Day	12/9/16	6/30/18		CRA	3/25/15	12/31/18
	FightPil	12/10/04			DinoAliv	9/1/17	8/30/18		Everest		12/31/18
Chantilly	NPA	10/27/16	12/31/17		DreamBig	2/24/17	2/23/18		LivingSe	10/1/13	12/31/18
	AmazAdve	5/1/17	4/30/18	Edmonton TWS	GlobSoun	10/1/16	10/1/18	Hastings	ACGOTS	6/8/17	6/7/18
Charleston CCAS	DreamBig	8/26/17	9/1/18		NPA	2/12/16	12/31/17		AmazAdve	2/8/17	8/12/18
	GlobSoun	11/1/17	11/1/19		DreamBig	2/17/17	2/16/18		D-Day	5/15/15	12/31/18
Charlotte DP	AmazAdve	5/26/17	5/25/18		ExtrWeat	5/22/17	5/21/18		DreamBig	10/19/17	10/18/18
	DreamBig	2/17/17	2/16/18	Hong Kong SM	NPA	1/25/17	1/24/18		EarthFli	2/1/17	1/31/18
Chattanooga TA	Hurrican	9/29/17	11/30/17		DreamBig	3/25/17	3/24/18		FOTB	3/17/13	6/30/18
	Jerusale	3/27/15	3/27/18		ExtrWeat	6/2/17	6/1/18		G3DNW	2/10/15	6/10/18
Chicago MSI	JTS	1/6/17	1/6/18		FOTB	12/26/13	6/30/18	Hutchinson	JMCOS	9/1/17	2/28/18
	JTS	5/26/17	5/31/18	Huntsville USSRC	GlobSoun	10/1/16	10/1/18		AmazAdve	4/21/17	12/31/17
Chongqing STM	WildAfri	11/16/16	11/30/17		Jerusale	12/26/13	1/31/18		DreamBig	2/17/17	2/16/18
	AmazAdve	5/26/17	5/25/18		JMCOS	5/20/16	12/31/17		FOTB	10/4/12	1/31/18
Cleveland	DreamBig	2/17/17	2/16/18		JMCOS	11/15/16	12/31/17		G3DNW	2/15/14	5/31/18
	IncrPred	4/14/17	4/30/18	Fort Lauderdale	JTM	12/26/13	6/30/18		IncrPred	9/15/17	9/30/18
Columbus COSI	NPA	7/1/17	6/30/18		MOC	1/27/17	1/31/18		MA	11/20/17	2/12/18
	AsterME	6/1/17	5/1/18		NPA	2/12/16	6/20/18		Penguins	6/3/17	12/31/17
	Bugs	9/15/14	6/30/18		WWDDPP3D	5/1/15	5/31/18		DreamBig	2/17/17	2/16/18
	DreamBig	2/17/17	2/16/18		ExtrWeat	3/1/15	3/14/18		FightPil	7/1/13	
	ExtrWeat	9/1/17	9/1/18		FOTB	6/1/17	11/30/17		JTS	2/13/15	3/21/18
					AmazAdve	4/28/17	4/27/18		ACGOTS	5/29/17	11/28/17
					DreamBig	2/17/17	2/16/18		DreamBig	2/17/17	2/16/18

Theater	Film	Open	Close	Theater	Film	Open	Close	Theater	Film	Open	Close
Indianapolis Imx	JTS	2/20/15	7/2/18	Nanjing YSTC New Delhi ICC New Orleans	NPA	8/25/17	8/24/18	Saint Paul SMM	Mummies	5/27/17	1/7/18
	LITAOA	5/1/15	6/18		ND				JTTSP	5/5/17	6/1/18
	SpaceNex	9/8/17	3/31/18		GWS	12/26/16	12/31/17		RME	10/13/17	3/1/18
	AmazAdve	9/8/17	6/7/18		HOTB		12/31/17		ACGOTS	6/16/17	6/15/18
	ExtrWeat	2/24/17			Niagara	7/1/86			AmazAdve	4/14/17	4/13/18
Jersey City Kagoshima Kansas City Sci	DreamBig	2/17/17	8/16/18	Niagara Can DCI Niagara NY DCI Norwalk MA	Niagara	5/1/07		Salt Lake City Clark	BeauPlan	4/29/16	12/31/17
	MA	7/1/17	9/30/18		AmazAdve	7/1/17	6/30/18		DreamBig	8/25/17	8/24/18
	DreamBig	5/26/17	5/25/18		DreamBig	2/17/17	2/16/18		FOTB	2/8/13	6/30/18
Kaohsiung NSTM Katoomba Katowice CC Keelung NMMST Krakow CC KSC 1 Kurashiki Kuwait SCK	Mummies	6/20/17	6/20/18	Nuremberg	NPA	5/27/16	12/31/17		IncrPred	2/17/17	2/17/18
	MA	7/1/17	12/31/17		HumpbWha		12/31/17		JTS	5/15/15	5/31/18
	WATE	6/1/97			NPA	3/3/16	12/31/17		G3DNW	5/1/17	1/30/18
	G3DNW	6/18/14	9/19/18		GWS	6/1/17	5/31/18		Bugs	7/1/14	6/30/18
	NPA	7/1/17	6/30/18	Omaha Zoo Orlando SC	DreamBig	2/17/17	8/16/18	San Diego NHM San Diego RHF	DreamBig	3/10/17	3/9/18
Las Palmas Lehi	G3DNW	6/18/14	9/19/18		G3DNW	7/5/14	1/4/18		FOTB	10/12/12	6/30/18
	JTS	2/27/15			JMCSO	7/1/17	6/30/18		NPA	3/18/16	12/31/17
	ConqOTS	7/16/17	4/18/18		WWDPP3D	4/1/17	3/31/18		AmazAdve	5/6/17	4/30/18
	DreamBig	6/25/17	12/25/17		MA	7/14/17	11/26/17		DreamBig	2/17/17	2/16/18
Leon Exp Lodz CC	ExtrWeat	11/1/17	4/30/18	Ota Sanbei Paris Geo	HumpbWha	7/7/15	12/31/17	San Simeon DCI Seattle PSC 2	NPA	2/12/16	7/31/18
	HumpbWha	7/6/16	12/31/17		NPA	4/3/17	12/31/17		HCBTD	8/17/96	
	WM	9/1/17	8/31/18		JTTSP	6/3/17	12/1/17		AmazAdve	11/10/17	
	TinyGian	5/30/16	5/30/18		ACGOTS	5/26/17	6/30/18		D-Day	3/29/14	6/30/19
	IncrPred	9/29/17	9/30/18	Parker Pensacola NAM	DreamBig	3/1/17	6/30/18		DreamBig	2/17/17	2/16/18
London BFI Ode	NPA	3/24/17	3/2/18		Hurrican	3/13/17	3/12/18	Shanghai 3D STM	FOTB		6/30/18
	SpaceNex	6/30/17	6/30/18		MOF	11/8/96			LastReef	9/5/17	2/8/18
	Kenya	6/1/17	11/30/17		RobotsNG	4/15/17			RME		9/1/18
	Bugs	8/24/15	8/24/18		DreamBig	2/18/17	2/17/18		SFLIS	9/5/17	9/4/18
	G3DNW	6/18/14	9/19/18	Peoria RM	DSC	11/17/16	11/16/17		TTA	1/20/17	12/31/17
London SM	AMMM	9/1/17	8/30/18		FOTB	4/1/16	6/30/18	Shenyang LSTM Shijiazhuang HST Singapore SC	JMCSO	12/31/16	12/31/17
	JTM		1/31/18		JTS	6/11/16	12/31/17		NPA	12/1/16	12/17/17
	LITAOA	10/16/15			MOC	6/1/17	5/31/18		JMCSO	11/1/16	11/1/17
	MOC	1/20/17	1/31/18		MOTUW	1/17/15	3/30/18		Alaska	1/1/17	1/1/19
	NPA	2/12/16	2/11/18	Philadelphia FI	WildAfri	8/10/17	8/30/18		MOTUW	6/13/16	12/31/17
Los Angeles CSC	Bugs	10/22/16	7/31/18		FlyMons	11/25/16		Sinsheim Sioux Falls	RobotsNG	5/1/17	4/30/18
	DreamBig	9/4/17	8/31/18		JMCSO	6/16/17	12/31/17		NPA	3/4/16	12/31/17
	RobotsNG	5/23/15	2/28/18		RobotsNG	10/1/16			DreamBig	6/2/17	6/2/18
	AmazAdve	10/11/17	10/10/18	Phoenix ASC	ConqOTS	11/3/17	3/31/18		ExtrWeat	2/1/17	2/3/18
	DreamBig	2/17/17	2/11/18		DreamBig	2/17/17	2/16/18	Speyer Dome	IncrPred	12/22/16	6/30/18
Louisville KSC	Hurrican	10/10/17	4/10/18		ExtrWeat	8/18/17	11/23/17		RobotsNG	3/4/16	
	DreamBig	2/17/17	2/16/18		FOTB	10/7/16	8/18/18		WildAfri	8/1/17	8/30/18
	FON	6/18/15	7/2/18		JTTSP	6/16/17	6/15/18		Dolphins		12/31/17
	FOTB	9/30/12	6/30/18	Pittsburgh CSC Poitiers Imax Poitiers Solido Port of Spain	AmazAdve	11/17/17	6/30/18		Jerusale	12/12/13	12/11/17
Lubbock SS	G3DNW	6/18/15	6/30/18		TinyGian	4/1/16	4/30/19	Stockholm	JTTSP	5/25/17	5/24/18
	Jerusale	1/20/14	7/2/18		JMCSO	2/1/16	12/31/17		MOF		12/31/17
	JTS	4/3/15	6/30/18		FOTB	10/6/17	10/5/18		DinoAliv	6/1/17	6/1/18
	JTTSP	6/30/17	6/29/18		JMCSO	2/7/17	2/7/18		HumanBod	1/1/12	12/31/17
	AmazAdve	6/2/17	5/30/18	Portland OMSI ET	JTM	10/6/17	10/5/18	Sudbury	JTTSP		1/1/18
Lucerne	ExtrWeat	3/4/17	2/23/18		D-Day	11/10/14	3/1/18		AmazAdve	10/6/17	10/5/18
	HumpbWha	10/6/16	4/6/18		DreamBig	2/17/17	2/16/18		D-Day	5/30/16	6/30/18
	Hurrican	3/16/17	6/15/18		FOTB	1/7/14	6/30/18		DreamBig	2/17/17	2/16/18
	JTS	11/26/16	11/26/17		JMCSO	3/1/17	2/28/18	Taichung NMNS Tallahassee CLC	NPA	2/12/16	6/30/18
Lucknow McMinnville	NPA	3/17/16	4/30/18	Poznan CC Prague CC Quebec Cpx Raleigh	JTS	3/20/15	3/21/18		SFLIS	7/1/17	6/30/18
	RME	9/1/18			NPA	2/12/16	12/31/17		DreamBig	2/17/17	2/16/18
	WildAfri	9/21/17	9/30/18		G3DNW	6/18/14	9/19/18		ExtrWeat	5/19/17	5/1/18
	NPA	2/6/17	12/31/17		G3DNW	5/22/14	9/19/18		FOTB	1/18/13	6/30/18
	FightPil	3/23/12			RME	7/14/17	7/14/18	Thessaloniki Tijuana Tokyo TSC Toronto OSC	MA	7/14/17	7/13/18
Melbourne MV	Hurrican	3/1/17	8/31/18	Regina	D-Day	5/23/14	2/1/18		WildAfri	5/15/16	6/30/18
	Jerusale	9/27/13	2/28/18		DreamBig	2/17/17	2/16/18		DreamBig	10/28/17	10/27/18
	LOF	3/23/12			FOTB	10/19/17	6/30/18		VanGogh	3/24/17	3/23/18
	Rescue	6/1/12			Jerusale	2/21/14	2/28/18		MA	3/18/17	3/17/18
	AmazAdve	9/15/17	9/13/18	Richmond SMV	JTS	6/16/17	6/15/18		AmazAdve	10/6/17	9/30/18
Memphis Pink	AMMM	7/11/16			L&C	1/1/15	12/31/17	Valencia Spn	DreamBig	2/17/17	8/16/18
	G3DNW	4/11/16	4/10/18		NPA	2/27/16	12/31/17		RME		9/1/18
	MA	1/1/17	1/1/18		DreamBig	2/17/17	2/16/18		HidUniv		12/31/17
	MA	1/30/17	1/29/18		GWS	6/1/17	5/31/18		JMCSO	4/1/17	3/31/18
	MOTUW	3/24/14	12/31/17	Rochester MSC Sacramento Imx	DreamBig	2/18/17	2/17/18		JTS	8/1/17	5/1/18
Mexico City Pap	SFLIS	3/16/17	3/22/18		FOTB	5/1/13	6/30/18	Vancouver TWS	SeaMonst	7/1/16	12/31/17
	ACGOTS	5/7/16	6/22/18		GCA	6/1/16	7/31/18		WWDPP3D	7/1/16	7/1/18
	ExtrWeat	3/24/17	5/28/18		HumpbWha	3/14/15	12/31/17		Bugs	3/11/06	6/30/18
	WWDPP3D	5/21/15	5/31/18		NPA	4/10/16	4/30/18		D-Day	11/7/15	11/12/17
	AmazAdve	11/17/17	11/16/18	Saint Augustine	WildAfri	2/1/17			DreamBig	3/4/17	2/16/18
Mexico City PAP Milwaukee	DreamBig	3/15/17	3/14/18		ToFly	7/1/16	6/30/18	Vantaa Victoria DCI	GlobSoun	10/1/16	10/1/18
	HumpbWha	11/16/16	11/15/17		AmazAdve	9/8/17	3/7/18		HumanBod	7/1/16	6/30/18
	AmazAdve	10/1/17	6/30/18		ExtrWeat	2/24/17			NPA	2/12/16	6/30/18
	DreamBig	7/10/17	7/9/18		FOTB	8/13/13	6/30/18		RME		9/1/18
	Penguins	10/23/17	6/20/19		L&C	7/1/15	12/31/17		WOTA	1/1/17	1/31/18
Mobile	DreamBig	9/23/17	9/22/18	Saint Louis SC	AmazAdve	4/28/17	4/30/18	Vantaa Victoria DCI	FOTB	5/9/17	1/15/18
	GlobSoun	10/18/17	10/1/18		AMMM	8/19/17	8/18/18		AmazAdve	4/14/17	6/30/18
	JTTSP	6/10/06	12/31/17		DreamBig	2/17/17	2/16/18		ConqOTS	8/18/17	2/17/18
	AmazAdve	10/6/17	3/30/18		ExtrWeat	10/15/16	1/1/18		DreamBig	3/17/17	3/16/18
	IncrPred	6/23/17	6/30/18	San Jose Tech	FOTB	1/18/13	12/31/17		DSC	2/3/17	3/2/18
Monterrey Pap Montreal SC	NPA	2/20/17	2/19/18		Gruffalo	1/1/15	12/31/17		FOTB	4/5/13	6/30/18
	DreamBig	9/10/17	9/9/18		GruffChi	2/1/15	12/31/17		G3DNW	9/4/15	6/30/18
	G3DNW	10/6/14	8/31/18		ROTB	10/3/15	12/31/17		MA	11/24/17	5/23/18
	TTA	1/11/16	12/31/17		WWDPP3D	1/9/17	1/31/18	Vantaa Victoria DCI	RME		9/1/18
	NPA	8/4/17	2/3/18		AmazAdve	9/22/17	4/21/18		RobotsNG	2/3/17	
Mumbai NSC Nanchang JTSC	CRA		12/31/17		DreamBig	2/17/17	2/16/18		SFLIS	9/22/17	9/21/18
	JIAC	11/10/16	11/10/17		ExtrWeat	1/13/17	1/12/18		TinyGian	12/2/16	12/2/17

Theater	Film	Open	Close	Theater	Film	Open	Close	Theater	Film	Open	Close
Virginia Beach	AMSC	WWDP3D 5/1/17	4/30/18								
		AmazAdve 5/27/17									
		6/30/18									
		AMMM 5/27/17	9/4/18								
		G3DNW 5/28/16	5/29/18								
Washington	NASM	ACGOTS 5/26/17	5/28/18								
		D-Day 5/23/17	5/22/19								
		DreamBig 2/17/17	2/16/20								
		JTS 3/6/15									
Yellowstone		ToFly 3/7/16	12/31/17								
		Yell 5/1/14	12/31/17								

Key to Film Abbreviations

Film	Title	Year		Dist	Film	Title	Year		Dist
ACGOTS	Aircraft Carrier: Guardian of the Seas	2016	3D	K2	MOF	Magic of Flight, The	1997		MFF
AIWC	Adventures in Wild California	2000		MFF	MOTN	Mystery of the Nile	2005		MFF
Alaska	Alaska: Spirit of the Wild	1997		K2	MOTUW	Mysteries of the Unseen World	2013	3D	NGD
AmazAdve	Amazon Adventure	2017	3D	SKF	Mummies	Mummies: Secrets of the Pharaohs	2007		GSF
Amazon	Amazon	1997		MFF	ND	Neelkanth Darshan	2005		unk
AMMM	Amazing Mighty Micro Monsters 3D	2016	3D	SER	Niagara	Niagara: Miracles, Myths, and Magic	1987		K2
AsterME	Asteroid: Mission Extreme	2016	3D	NGD	NPA	National Parks Adventure	2016	3D	MFF
BeauPlan	Beautiful Planet, A	2016	3D	IMAX	Ozarks	Ozarks: Legacy and Legend	1993		IMAX
Bugs	Bugs!	2003	3D	SKF	Penguins	Penguins 3D	2013	3D	nWP
ConqOTS	Conquest of the Skies	2017	3D	SER	PTJH	Pandas: The Journey Home	2014	3D	NGD
CRA	Coral Reef Adventure	2003		MFF	Rescue	Rescue 3D	2011	3D	K2
D-Day	D-Day: Normandy 1944	2014	3D	K2	RME	Rocky Mountain Express	2011		SLC
DIA	Dream is Alive, The	1985		IMAX	RobotsNG	Robots	2015	3D	NGD
DinoAliv	Dinosaurs Alive	2007	3D	GSF	ROTB	Room on the Broom	2015	3D	B&D
Dolphins	Dolphins	2000		MFF	SeaMonst	Sea Monsters: A Prehistoric Adventure	2007		NGD
DreamBig	Dream Big: Engineering Our World	2017	3D	MFF	SFLIS	Search for Life In Space 3D, The	2016	3D	MFF
DSC	Deepsea Challenge 3D	2015	3D	NGD	SpaceNex	Space Next 3D	2015	3D	B&D
EarthFli	Earthflight	2017	3D	GSF	TA	Tornado Alley	2011	3D	GSF
Everest	Everest	1998		MFF	TinyGian	Tiny Giants 3D	2014	3D	GSF
ExtrWeat	Extreme Weather	2016	3D	NGD	ToFly	To Fly!	1976		MFF
FightPil	Fighter Pilot: Operation Red Flag	2004	3D	K2	TOTIA	Titans of the Ice Age	2013	3D	GSF
FlyMons	Flying Monsters 3D	2011	3D	NGD	TTA	To the Arctic	2012	3D	IMAX
FMTTM	Fly Me to the Moon	2008	3D	nWP	VanGogh	Van Gogh: Brush with Genius	2009		MFF
FON	Forces of Nature	2004		NGD	WATE	Wild Australia: The Edge	1997		NGD
FOTB	Flight of the Butterflies	2012	3D	SKF	WildAfri	Wild Africa 3D	2015	3D	GSF
G3DNW	Galapagos 3D: Nature's Wonderland	2014	3D	nWP	WM	Watermelon Magic	2013	3D	B&D
GC	Grand Canyon: The Hidden Secrets	1985		K2	WOTA	Wonders of the Arctic	2014	3D	GSF
GCA	Grand Canyon Adventure: River at Risk	2008	3D	MFF	WWDDP3D	Walking With Dinosaurs: Prehistoric Planet	2014	3D	GSF
GlobSoun	Global Soundscapes: Mission to Record the Earth				Yell	Yellowstone	1994		GSF

November 2017 Bookings Count

#	Film	#	Film	#	Film	#	Film
62	DreamBig	6	SFLIS	2	JIAC	1	MOTN
36	NPA	5	FightPil	2	MOF	1	ND
30	AmazAdve	5	GlobSoun	2	Niagara	1	Ozarks
26	FOTB	5	L&C	2	SeaMonst	1	PTJH
19	G3DNW	5	MOC	2	ToFly	1	Rescue
17	JTS	5	SpaceNex	1	AIWC	1	ROTB
16	ExtrWeat	5	TinyGian	1	Alaska	1	TA
12	JMCSO	4	AMMM	1	Amazon	1	TOTIA
11	D-Day	4	ConqOTS	1	BeauPlan	1	VanGogh
10	ACGOTS	4	FON	1	DIA	1	WATE
10	JTTSP	4	HidUniv	1	EarthFli	1	WM
10	RME	4	Penguins	1	Everest	1	WOTA
9	Hurrican	4	TTA	1	FlyMons	1	Yell
9	IncrPred	3	AsterME	1	GC		
9	MA	3	CRA	1	GCA		
9	RobotsNG	3	DinoAliv	1	Gruffalo		
8	Jerusale	3	DSC	1	GruffChi		
8	WildAfri	3	HumanBod	1	HCBTD		
7	Bugs	3	JTM	1	HOTB		
7	HumpbWha	3	LITAOA	1	Kenya		
7	MOTUW	3	Mummies	1	LastReef		
7	WWDP3D	2	Dolphins	1	LivingSe		
6	GWS	2	FMTTM	1	LOF		

Directory of Organizations Mentioned in this Issue of LF Examiner

Distributors' abbreviations are listed in **bold**.

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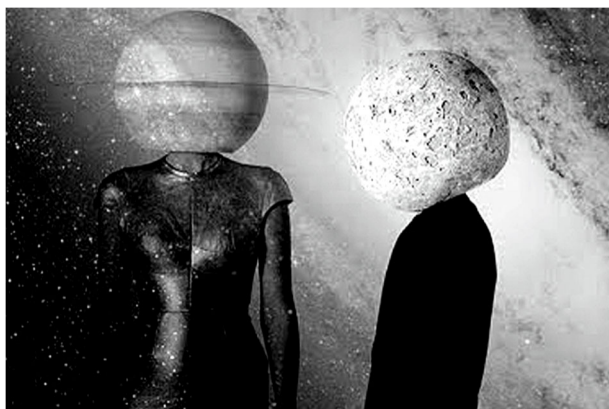
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SHORTS



Bryan Adams' Please Stay video used images from In Saturn's Rings for the background.

GSCA announces 2018 meets

The **Giant Screen Cinema Association** has announced the dates and locations of its two 2018 meetings. The Film Expo will be hosted by the **Pacific Science Center** in Seattle, WA, March 12-13. The center's 400-seat **Boeing IMAX Theatre** features an IMAX laser projection system. Its smaller **PACCAR IMAX Theatre** is equipped with both a 15/70 film projector and an IMAX xenon digital system.

According to the association, the spring meeting "will feature screenings of new giant-screen films, films in production, and projects in development." The conference hotel will be the Westin Seattle, about a mile (1.6 kilometers) from the science center.

The annual conference and trade show, featuring the usual mix of new films, films in production and development, panel discussions, technical presentations, and awards ceremony, will be held at the **Tennessee Aquarium** in Chattanooga, Friday, Sept. 21 through Monday, Sept. 23. Its 290-seat IMAX theater has an IMAX laser system. The conference hotel, the Westin Chattanooga, is about half a mile (0.8 kilometers) from the aquarium.

The conference will be followed on Tuesday, Sept. 24, by film screenings on the IMAX Dome theater at the **McWane Science Center** in Birmingham, AL, about 150 miles (240 kilometers) from Chattanooga. The 280-seat venue features an IMAX 15/70 film projector. Bus transportation will be available for conferees who wish to attend Dome Day.

Video uses ISR footage

Footage from *In Saturn's Rings*, Stephen van Vuuren's giant-screen film in production, was used by Canadian musician **Bryan Adams** in his latest music video, "Please Stay," released in October. In the black-and-white video, which Adams directed, a female figure in a silvery dress with a model of Saturn covering her head is orbited by a male figure with a cratered moon for a head, as Adams sings. Space images from van Vuuren's film are projected onto the people and the screen behind them.

According to van Vuuren, Adams sent a simple e-mail asking to use footage from the film (which uses no CGI, only real photographs), explaining "there is stock footage available from video outlets, but your footage is way cooler." The filmmaker's first thought was that it might be some sort of scam, but after determining that it wasn't, he sent the production team the footage. He comments, "It was a comfortable, easy process and I could not be more pleased with how it turned out." The video can be seen at tinyurl.com/ISRadams.

In Saturn's Rings is distributed by **BIG & Digital** and will be released to giant-screen theaters in May 2018 and to full-dome theaters in the fall of 2018.

CA Science Center gets IMAX laser

In October, the **California Science Center** converted its 19-year-old IMAX theater from 15/70 film to IMAX laser. The 420-seat theater was closed for about a week as the two laser projectors, a new screen, and the IMAX 12-channel sound system were installed.

There are currently 46 IMAX laser theater in operation, 15 of which are in museums or science centers.

Astronaut visits USC GS film class

In October, NASA astronaut **Terry Virts** spoke to the **University of Southern California's** "Art and Practice of Giant-Screen Cinema" class about the challenges of shooting GS films in space. Virts shot much of **Imax Corporation's** *A Beautiful Planet* (2016) on board the International Space Station, using various digital cameras. He discussed the difficulty of getting good exposures in the harsh light of space, and his efforts to capture the sounds of the space station. "I [recorded] the sounds

(see **SHORTS** on page 16)



Astronaut Terry Virts spoke to GS film students at USC in October.

Bryan Adams

Photo by Matt Scott.